

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: P1007330

Luminaire Tested: S122IP-B1080UB2750-4F0-XX-W2A-4_4000K

Issue Date: 5/5/2025

Test Information

Test Method: LM-79-2019
Report Number: P1007330
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122IP-B1080UB2750-4F0-XX-W2A-4_4000K
Description: Define 2 Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

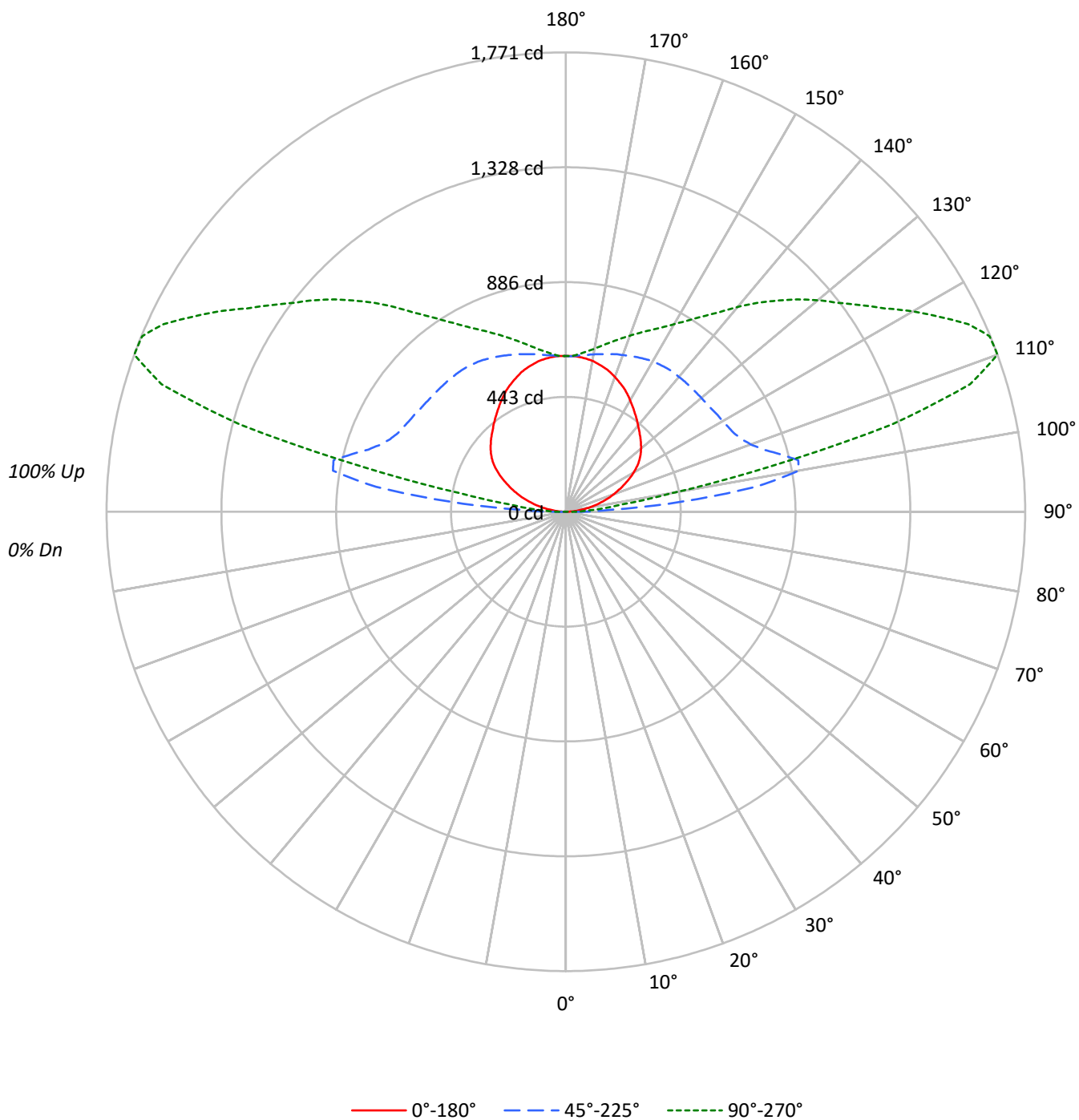
Lumens per Lamp: N/A
Luminaire Lumens: 4184.0 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 35
Input Voltage (V):
Input Current (A_{in}): 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

TEST NUMBER: P1007330

CATALOG NUMBER: S122IP-B1080UB2750-4F0-XX-W2A-4_4000K

Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

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°	3.9	0.1
90°-100°	234.0	5.6
100°-110°	824.0	19.7
110°-120°	865.4	20.7
120°-130°	712.0	17.0
130°-140°	572.0	13.7
140°-150°	432.0	10.3
150°-160°	303.7	7.3
160°-170°	178.8	4.3
170°-180°	58.2	1.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	3.9	0.1
90°-120°	1923.5	46.0
90°-150°	3639.5	87.0
90°-180°	4180.0	99.9
0°-180°	4184.0	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°	1	16	39	38	38	3
95°	40	99	452	171	132	42
105°	141	212	855	1529	1301	150
115°	248	313	716	1477	1712	246
125°	346	410	688	1196	1389	308
135°	406	485	680	1005	1151	314
145°	464	533	676	840	919	291
155°	528	570	657	743	772	243
165°	575	592	629	667	678	162
175°	599	600	605	612	611	57
180°	600	600	600	600	600	

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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°	1.2	4.6	9.2	11.5	13.9	17.3	23.1	31.2	38.1	39.2	38.1
92.5°	17.3	24.2	33.5	39.2	48.5	61.2	92.3	136.2	175.5	177.8	148.9
95°	40.4	45.0	56.6	67.0	85.4	113.1	166.2	266.6	400.6	452.5	395.9
97.5°	60.0	67.0	79.6	94.7	115.4	146.6	214.7	354.4	570.2	737.6	743.4
100°	88.9	92.3	102.7	121.2	144.3	176.6	237.8	378.6	628.0	911.9	1078.1
102.5°	115.4	117.7	128.1	146.6	170.8	203.2	258.6	379.8	606.0	917.7	1202.8
105°	140.8	145.4	153.5	170.8	196.2	228.6	282.8	385.5	576.0	855.4	1162.4
107.5°	168.5	172.0	180.1	196.2	221.6	254.0	307.0	398.2	559.8	797.6	1077.0
110°	196.2	200.9	207.8	222.8	247.0	280.5	331.3	414.4	555.2	758.4	997.3

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	221.6	226.2	234.3	248.2	271.3	305.9	354.4	431.7	556.4	733.0	941.9
115°	248.2	254.0	260.9	274.7	297.8	329.0	378.6	449.0	561.0	715.7	898.1
117.5°	275.9	280.5	287.4	300.1	322.1	354.4	400.6	467.5	567.9	706.4	868.1
120°	301.3	305.9	312.8	323.2	346.3	378.6	423.6	486.0	574.9	698.4	845.0
122.5°	325.5	329.0	335.9	347.5	370.5	404.0	445.6	502.1	582.9	693.7	825.3
125°	346.3	349.8	356.7	370.5	393.6	425.9	467.5	519.4	591.0	688.0	806.9
127.5°	363.6	368.2	377.5	392.5	414.4	447.9	488.3	535.6	599.1	684.5	789.6
130°	378.6	383.2	394.8	410.9	434.0	466.3	506.7	550.6	608.3	682.2	772.2
132.5°	392.5	398.2	410.9	428.3	452.5	484.8	522.9	565.6	617.6	681.1	758.4
135°	406.3	410.9	424.8	442.1	468.7	501.0	537.9	578.3	624.5	679.9	745.7
137.5°	419.0	424.8	438.6	457.1	483.7	513.7	550.6	588.7	631.4	679.9	736.5
140°	434.0	438.6	452.5	471.0	496.4	526.4	561.0	596.8	636.0	678.7	728.4
142.5°	449.0	452.5	465.2	483.7	507.9	535.6	569.1	603.7	639.5	678.7	720.3
145°	464.0	468.7	480.2	497.5	520.6	546.0	577.2	609.5	641.8	676.4	713.4
147.5°	480.2	483.7	495.2	511.4	531.0	554.1	584.1	612.9	643.0	673.0	706.4
150°	496.4	499.8	509.1	524.1	541.4	562.2	588.7	615.3	641.8	669.5	697.2
152.5°	512.5	513.7	522.9	535.6	551.8	570.2	593.3	616.4	639.5	663.7	689.1
155°	527.5	528.7	535.6	548.3	561.0	578.3	597.9	617.6	637.2	656.8	678.7
157.5°	540.2	541.4	547.1	558.7	569.1	584.1	601.4	617.6	632.6	649.9	669.5
160°	552.9	554.1	558.7	567.9	577.2	589.9	603.7	617.6	629.1	643.0	659.1
162.5°	565.6	564.5	569.1	576.0	584.1	593.3	604.9	616.4	625.6	637.2	649.9
165°	574.9	573.7	576.0	582.9	588.7	595.6	606.0	614.1	621.0	629.1	639.5
167.5°	582.9	581.8	584.1	588.7	593.3	597.9	606.0	612.9	616.4	622.2	629.1
170°	591.0	588.7	589.9	593.3	595.6	599.1	604.9	610.6	612.9	616.4	621.0
172.5°	595.6	594.5	593.3	596.8	597.9	600.2	603.7	607.2	608.3	609.5	612.9
175°	599.1	597.9	596.8	599.1	599.1	600.2	602.6	604.9	603.7	604.9	606.0
177.5°	601.4	599.1	597.9	600.2	600.2	600.2	601.4	603.7	601.4	600.2	601.4
180°	600.2	600.2	600.2	600.2	600.2	600.2	600.2	600.2	600.2	600.2	600.2

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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°	36.9	34.6	36.9	38.1	38.1	38.1	38.1	38.1
92.5°	116.6	99.3	86.6	77.3	76.2	71.6	72.7	70.4
95°	302.4	232.0	183.5	158.1	143.1	133.9	130.4	131.6
97.5°	618.7	494.1	377.5	308.2	263.2	240.1	227.4	220.5
100°	1053.9	910.8	752.6	612.9	517.1	467.5	434.0	413.2
102.5°	1339.0	1334.4	1229.4	1079.3	973.1	879.6	835.7	805.7
105°	1402.5	1532.9	1547.9	1509.9	1438.3	1366.7	1317.1	1300.9
107.5°	1334.4	1528.3	1641.4	1687.6	1686.5	1676.1	1661.1	1634.5
110°	1240.9	1447.5	1595.3	1689.9	1739.6	1761.5	1771.9	1770.7

TEST NUMBER: P1007330

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	1155.5	1351.7	1512.2	1624.1	1698.0	1738.4	1760.3	1768.4
115°	1088.5	1266.3	1417.5	1536.4	1618.4	1671.5	1701.5	1711.9
117.5°	1033.1	1192.4	1333.2	1446.4	1530.6	1587.2	1618.4	1626.4
120°	993.9	1137.0	1259.4	1364.4	1445.2	1499.5	1532.9	1544.5
122.5°	962.7	1090.8	1205.1	1297.5	1367.9	1421.0	1449.8	1459.1
125°	932.7	1051.6	1153.2	1239.7	1306.7	1350.6	1379.4	1388.7
127.5°	902.7	1012.3	1109.3	1190.1	1249.0	1290.5	1315.9	1322.9
130°	873.8	973.1	1064.3	1140.5	1197.0	1236.3	1259.4	1268.6
132.5°	846.1	936.2	1018.1	1088.5	1143.9	1183.2	1204.0	1212.0
135°	820.7	896.9	973.1	1037.7	1087.4	1125.5	1146.2	1150.9
137.5°	799.9	865.7	928.1	985.8	1033.1	1066.6	1085.1	1092.0
140°	780.3	835.7	888.8	939.6	976.6	1006.6	1023.9	1030.8
142.5°	764.2	809.2	853.0	893.4	928.1	954.6	969.6	969.6
145°	749.2	787.2	823.0	856.5	884.2	903.8	915.4	918.8
147.5°	737.6	768.8	797.6	823.0	847.3	863.4	871.5	873.8
150°	724.9	750.3	774.6	795.3	812.6	826.5	833.4	834.6
152.5°	712.2	735.3	754.9	772.2	784.9	796.5	801.1	801.1
155°	700.7	719.1	736.5	749.2	761.9	769.9	774.6	772.2
157.5°	686.8	703.0	718.0	728.4	737.6	744.5	746.8	746.8
160°	674.1	686.8	699.5	707.6	715.7	721.5	722.6	722.6
162.5°	661.4	671.8	682.2	688.0	696.1	699.5	700.7	699.5
165°	648.7	656.8	664.9	669.5	674.1	678.7	678.7	677.6
167.5°	636.0	643.0	648.7	653.3	655.7	658.0	658.0	656.8
170°	626.8	630.3	634.9	637.2	638.3	641.8	640.6	638.3
172.5°	616.4	618.7	622.2	623.3	624.5	625.6	624.5	623.3
175°	609.5	610.6	611.8	612.9	612.9	614.1	612.9	610.6
177.5°	603.7	603.7	604.9	604.9	604.9	604.9	603.7	601.4
180°	600.2	600.2	600.2	600.2	600.2	600.2	600.2	600.2

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