

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: P1007668

Luminaire Tested: S124IP-B1205UB30-4F0-XX-W2A-4

Issue Date: 5/5/2025

Test Information

Test Method: LM-79-2019
Report Number: P1007668
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124IP-B1205UB30-4F0-XX-W2A-4
Description: Define 4 Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

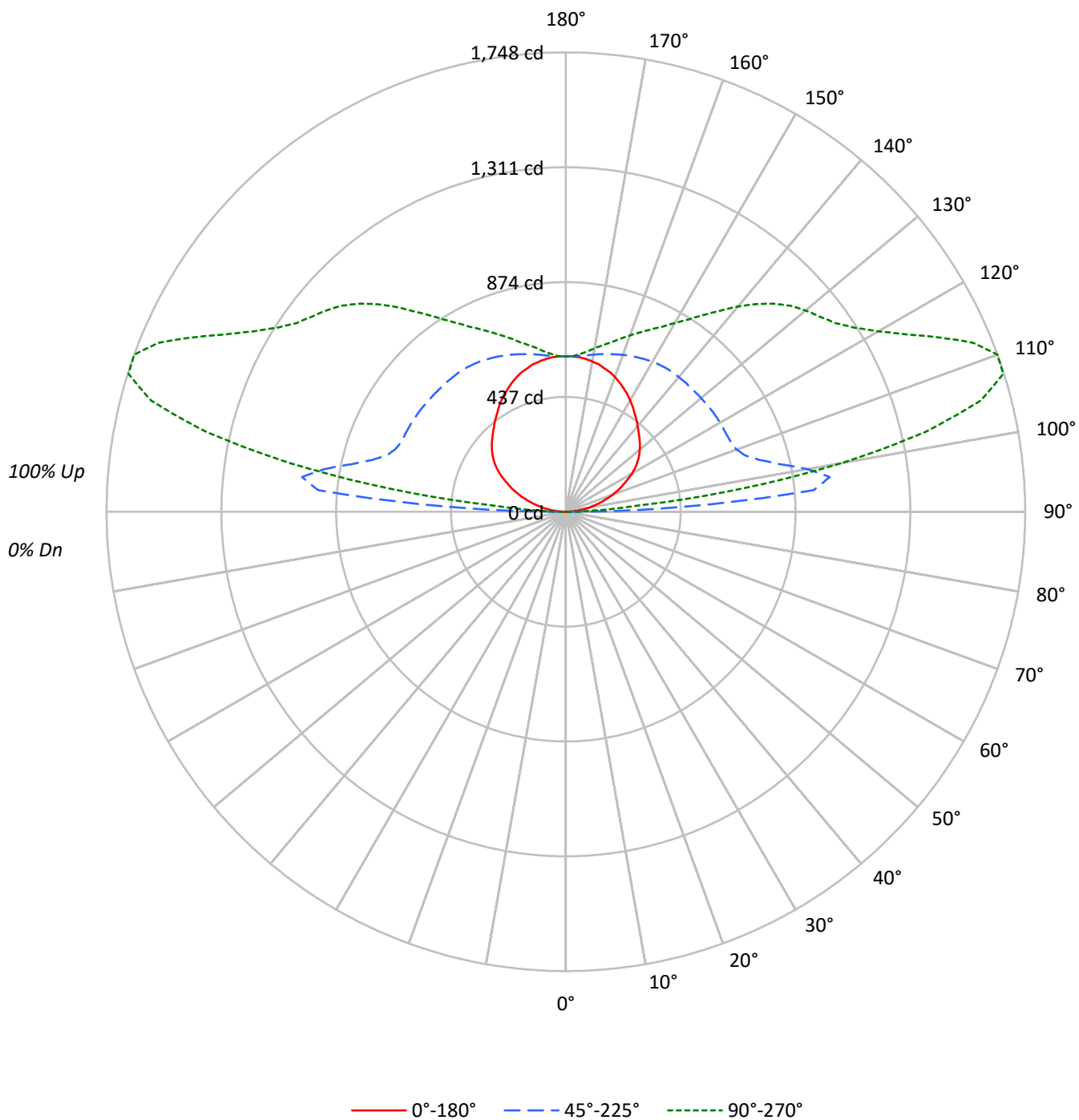
Lumens per Lamp: N/A
Luminaire Lumens: 4307.0 lumens
Efficiency: N/A
Efficacy: 123.1 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Indirect

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			
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
RCR																				
0	95	95	95	95	81	81	81	81	56	56	56	32	32	32	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	0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	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	0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	5	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	4	4	0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	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	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	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	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	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°	2.3	0.1
90°-100°	428.4	9.9
100°-110°	894.3	20.8
110°-120°	795.0	18.5
120°-130°	669.2	15.5
130°-140°	558.3	13.0
140°-150°	426.3	9.9
150°-160°	299.7	7.0
160°-170°	176.3	4.1
170°-180°	57.3	1.3
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.3	0.1
90°-120°	2117.6	49.2
90°-150°	3771.4	87.6
90°-180°	4305.0	100.0
0°-180°	4307.0	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	9	21	23	24	3
95°	38	121	946	469	283	42
105°	136	197	762	1640	1634	145
115°	239	300	679	1305	1569	237
125°	333	396	676	1111	1252	297
135°	396	471	670	986	1119	306
145°	456	523	666	831	914	286
155°	519	560	648	734	765	239
165°	566	583	621	658	668	160
175°	590	591	596	604	602	56
180°	591	591	591	591	591	

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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	3.5	7.0	8.1	9.3	9.3	16.3	16.3	18.6	20.9	19.7
92.5°	16.3	23.2	36.0	53.4	74.3	104.5	176.5	289.1	398.3	455.2	378.5
95°	38.3	41.8	53.4	68.5	96.4	145.1	246.2	436.6	714.1	946.4	973.1
97.5°	63.9	63.9	74.3	88.2	112.6	154.4	234.6	398.3	683.9	1012.5	1220.4
100°	88.2	88.2	96.4	110.3	132.4	169.5	238.0	369.3	606.1	933.6	1230.8
102.5°	111.5	113.8	120.8	133.5	154.4	189.3	249.7	361.1	553.9	834.9	1143.8
105°	135.9	139.3	145.1	159.1	180.0	213.7	269.4	365.8	528.3	761.7	1034.6
107.5°	162.6	164.9	170.7	185.8	205.5	239.2	290.3	379.7	521.4	714.1	945.2
110°	189.3	191.6	197.4	211.3	232.2	263.6	314.7	396.0	523.7	692.1	881.3

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	214.8	217.1	224.1	236.9	257.8	289.1	337.9	413.4	530.7	681.6	845.3
115°	239.2	242.7	250.8	262.4	284.5	315.8	362.3	432.0	539.9	679.3	825.6
117.5°	264.7	268.2	275.2	288.0	308.9	341.4	385.5	450.5	549.2	678.1	815.1
120°	290.3	292.6	300.7	313.5	333.3	365.8	409.9	470.3	559.7	678.1	807.0
122.5°	313.5	315.8	324.0	335.6	357.6	389.0	433.1	488.9	570.1	677.0	797.7
125°	333.3	337.9	344.9	357.6	379.7	412.2	454.0	507.4	580.6	675.8	787.3
127.5°	351.8	355.3	363.4	377.4	400.6	433.1	473.8	523.7	588.7	673.5	773.3
130°	366.9	371.6	380.9	398.3	420.3	454.0	493.5	538.8	598.0	672.3	760.6
132.5°	382.0	385.5	398.3	414.5	438.9	470.3	509.8	553.9	606.1	671.2	749.0
135°	396.0	400.6	412.2	432.0	456.3	486.5	524.9	566.7	614.3	670.0	737.3
137.5°	409.9	414.5	427.3	445.9	471.4	500.5	536.5	575.9	618.9	670.0	726.9
140°	425.0	428.5	441.2	461.0	485.4	513.2	548.1	585.2	624.7	668.8	718.8
142.5°	441.2	444.7	456.3	474.9	498.1	524.9	558.5	592.2	629.4	668.8	711.8
145°	456.3	459.8	471.4	487.7	509.8	535.3	565.5	596.8	630.5	666.5	703.7
147.5°	473.8	474.9	485.4	502.8	521.4	544.6	573.6	601.5	631.7	663.0	696.7
150°	490.0	491.2	500.5	514.4	531.8	553.9	579.4	605.0	631.7	659.5	688.6
152.5°	505.1	505.1	514.4	527.2	542.3	562.0	584.1	607.3	629.4	653.7	679.3
155°	519.0	520.2	527.2	538.8	551.6	569.0	588.7	608.5	627.0	647.9	670.0
157.5°	533.0	533.0	539.9	549.2	560.8	574.8	592.2	608.5	624.7	642.1	660.7
160°	545.8	545.8	550.4	558.5	567.8	580.6	594.5	608.5	621.2	635.2	650.3
162.5°	557.4	556.2	559.7	566.7	574.8	584.1	596.8	608.5	617.7	628.2	641.0
165°	565.5	565.5	567.8	573.6	579.4	586.4	596.8	606.1	613.1	621.2	630.5
167.5°	574.8	573.6	574.8	579.4	582.9	588.7	596.8	603.8	608.5	614.3	621.2
170°	580.6	579.4	580.6	584.1	586.4	589.9	595.7	601.5	603.8	607.3	611.9
172.5°	586.4	585.2	585.2	587.6	588.7	591.0	594.5	599.2	599.2	600.3	603.8
175°	589.9	588.7	588.7	589.9	591.0	591.0	593.4	596.8	595.7	595.7	598.0
177.5°	592.2	591.0	589.9	591.0	591.0	591.0	592.2	594.5	592.2	592.2	593.4
180°	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0

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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°	20.9	22.1	23.2	23.2	24.4	25.5	24.4	24.4
92.5°	279.8	209.0	164.9	135.9	118.4	110.3	105.7	105.7
95°	860.4	680.4	524.9	412.2	355.3	319.3	298.4	283.3
97.5°	1239.0	1149.6	1021.8	891.8	812.8	743.2	708.3	680.4
100°	1400.4	1423.6	1366.7	1280.8	1179.8	1108.9	1074.1	1064.8
102.5°	1392.2	1530.4	1565.3	1542.0	1489.8	1443.3	1406.2	1399.2
105°	1300.5	1501.4	1616.4	1664.0	1666.3	1657.0	1640.7	1633.8
107.5°	1187.9	1405.0	1565.3	1662.8	1713.9	1734.8	1744.1	1745.2
110°	1088.0	1288.9	1457.3	1585.0	1667.4	1716.2	1737.1	1747.6

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	1014.9	1186.7	1343.5	1471.2	1567.6	1629.1	1660.5	1679.1
115°	970.7	1113.6	1249.4	1360.9	1452.6	1522.3	1559.5	1568.7
117.5°	945.2	1066.0	1176.3	1273.8	1355.1	1415.5	1455.0	1460.8
120°	928.9	1036.9	1129.8	1212.3	1278.5	1329.5	1359.7	1372.5
122.5°	915.0	1018.3	1100.8	1170.5	1223.9	1265.7	1290.1	1302.8
125°	898.7	998.6	1078.7	1142.6	1189.0	1222.7	1244.8	1251.7
127.5°	880.2	976.5	1056.7	1117.0	1163.5	1193.7	1212.3	1219.2
130°	856.9	948.7	1027.6	1089.2	1136.8	1165.8	1184.4	1191.4
132.5°	832.6	917.3	994.0	1055.5	1102.0	1135.6	1153.0	1160.0
135°	810.5	886.0	956.8	1014.9	1061.3	1093.8	1112.4	1119.4
137.5°	789.6	855.8	917.3	970.7	1014.9	1048.5	1063.6	1071.8
140°	772.2	826.8	879.0	927.8	968.4	994.0	1010.2	1019.5
142.5°	755.9	802.4	845.3	886.0	920.8	944.0	958.0	963.8
145°	740.8	780.3	815.1	847.7	876.7	896.4	908.0	913.8
147.5°	728.1	760.6	789.6	816.3	838.4	855.8	865.1	867.4
150°	716.4	743.2	766.4	787.3	805.9	820.9	827.9	829.1
152.5°	703.7	725.7	746.6	762.9	778.0	789.6	793.1	794.2
155°	690.9	709.5	726.9	740.8	752.4	761.7	765.2	765.2
157.5°	677.0	693.2	708.3	719.9	729.2	736.2	738.5	738.5
160°	664.2	677.0	689.7	699.0	706.0	713.0	714.1	714.1
162.5°	651.4	661.9	671.2	679.3	683.9	690.9	692.1	690.9
165°	639.8	646.8	654.9	660.7	665.4	670.0	668.8	667.7
167.5°	628.2	634.0	641.0	644.5	646.8	650.3	650.3	649.1
170°	617.7	621.2	625.9	629.4	631.7	632.8	631.7	631.7
172.5°	608.5	610.8	613.1	615.4	616.6	617.7	616.6	614.3
175°	600.3	601.5	603.8	603.8	603.8	606.1	603.8	601.5
177.5°	594.5	595.7	595.7	596.8	595.7	596.8	594.5	592.2
180°	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0

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