

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: P1007329

Luminaire Tested: S122IP-B1080UB2750-4F0-XX-W2A-4_3500K

Issue Date: 5/5/2025

Test Information

Test Method: LM-79-2019
Report Number: P1007329
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_3500K
Description: Define 2 Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

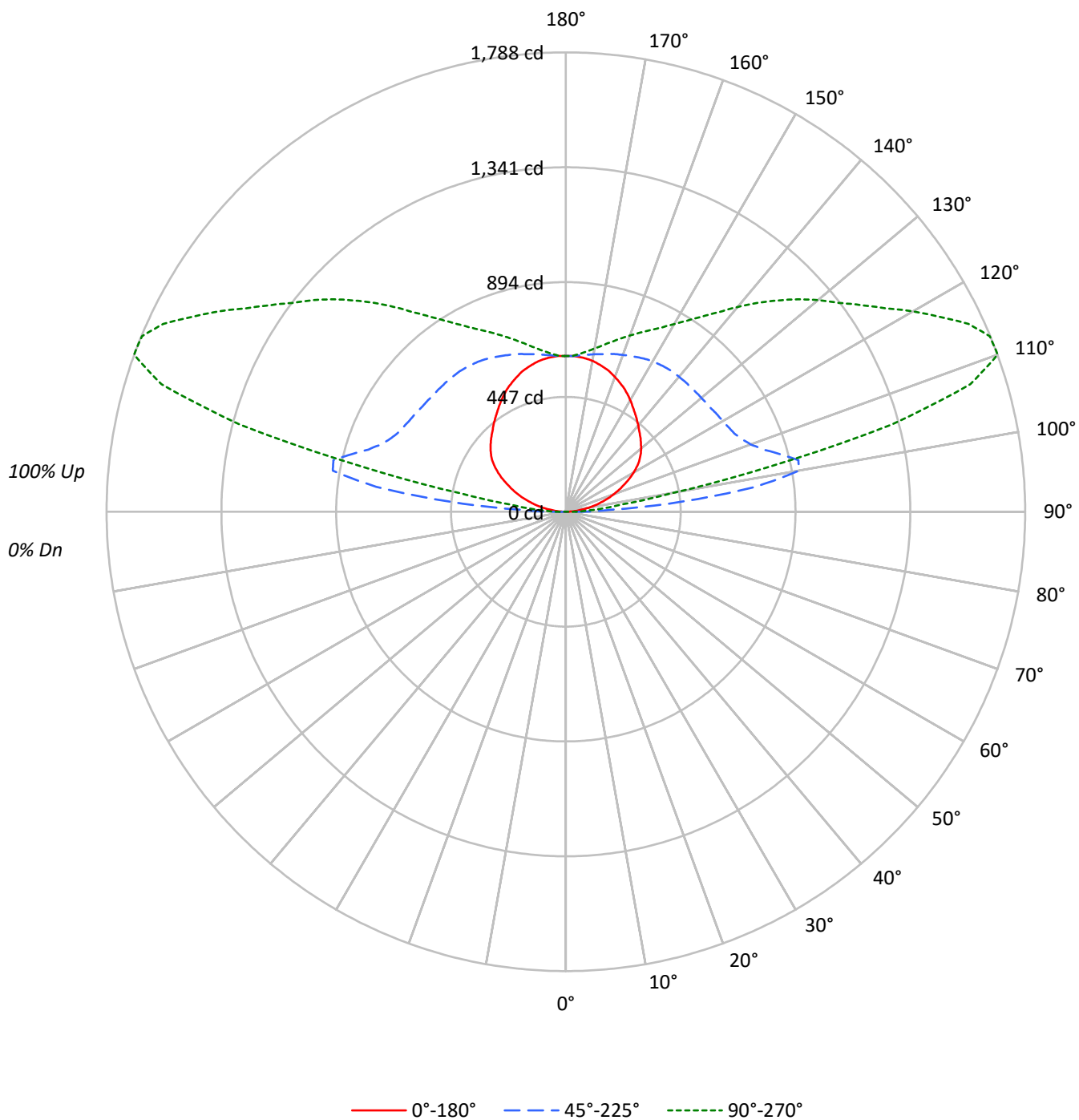
Lumens per Lamp: N/A
Luminaire Lumens: 4226.0 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 35
Input Voltage (V):
Input Current (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	0			
RCR																					
0	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	0			
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	0			
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	0			
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6	0			
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	0			
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	0			
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	0			
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	0			
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	0			
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3	0			
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	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°	3.9	0.1
90°-100°	236.3	5.6
100°-110°	832.3	19.7
110°-120°	874.1	20.7
120°-130°	719.1	17.0
130°-140°	577.7	13.7
140°-150°	436.4	10.3
150°-160°	306.8	7.3
160°-170°	180.6	4.3
170°-180°	58.7	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°	1942.8	46.0
90°-150°	3676.0	87.0
90°-180°	4222.0	99.9
0°-180°	4226.0	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	40	38	38	3
95°	41	100	457	173	133	42
105°	142	215	864	1544	1314	151
115°	251	317	723	1492	1729	249
125°	350	414	695	1208	1403	311
135°	410	490	687	1016	1162	317
145°	469	539	683	848	928	294
155°	533	575	663	750	780	245
165°	581	598	635	674	684	164
175°	605	606	611	618	617	57
180°	606	606	606	606	606	

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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	4.7	9.3	11.7	14.0	17.5	23.3	31.5	38.5	39.6	38.5
92.5°	17.5	24.5	33.8	39.6	49.0	61.8	93.3	137.6	177.2	179.6	150.4
95°	40.8	45.5	57.1	67.6	86.3	114.3	167.9	269.3	404.6	457.0	399.9
97.5°	60.6	67.6	80.4	95.6	116.6	148.1	216.9	357.9	576.0	745.0	750.8
100°	89.8	93.3	103.8	122.4	145.7	178.4	240.2	382.4	634.3	921.1	1089.0
102.5°	116.6	118.9	129.4	148.1	172.6	205.2	261.2	383.6	612.1	926.9	1214.9
105°	142.2	146.9	155.1	172.6	198.2	230.9	285.6	389.4	581.8	863.9	1174.1
107.5°	170.2	173.7	181.9	198.2	223.9	256.5	310.1	402.2	565.5	805.6	1087.8
110°	198.2	202.9	209.9	225.0	249.5	283.3	334.6	418.6	560.8	766.0	1007.3

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	223.9	228.5	236.7	250.7	274.0	309.0	357.9	436.1	562.0	740.4	951.4
115°	250.7	256.5	263.5	277.5	300.8	332.3	382.4	453.5	566.6	722.9	907.1
117.5°	278.7	283.3	290.3	303.1	325.3	357.9	404.6	472.2	573.6	713.5	876.8
120°	304.3	309.0	316.0	326.5	349.8	382.4	427.9	490.8	580.6	705.4	853.4
122.5°	328.8	332.3	339.3	350.9	374.3	408.1	450.0	507.2	588.8	700.7	833.6
125°	349.8	353.3	360.3	374.3	397.6	430.2	472.2	524.7	596.9	694.9	815.0
127.5°	367.3	371.9	381.3	396.4	418.6	452.4	493.2	541.0	605.1	691.4	797.5
130°	382.4	387.1	398.7	415.1	438.4	471.0	511.8	556.1	614.4	689.1	780.0
132.5°	396.4	402.2	415.1	432.6	457.0	489.7	528.2	571.3	623.8	687.9	766.0
135°	410.4	415.1	429.1	446.5	473.4	506.0	543.3	584.1	630.8	686.7	753.2
137.5°	423.2	429.1	443.0	461.7	488.5	518.8	556.1	594.6	637.8	686.7	743.9
140°	438.4	443.0	457.0	475.7	501.3	531.7	566.6	602.8	642.4	685.6	735.7
142.5°	453.5	457.0	469.9	488.5	513.0	541.0	574.8	609.8	645.9	685.6	727.5
145°	468.7	473.4	485.0	502.5	525.8	551.5	583.0	615.6	648.2	683.2	720.5
147.5°	485.0	488.5	500.2	516.5	536.3	559.6	590.0	619.1	649.4	679.7	713.5
150°	501.3	504.8	514.2	529.3	546.8	567.8	594.6	621.4	648.2	676.2	704.2
152.5°	517.7	518.8	528.2	541.0	557.3	576.0	599.3	622.6	645.9	670.4	696.0
155°	532.8	534.0	541.0	553.8	566.6	584.1	603.9	623.8	643.6	663.4	685.6
157.5°	545.6	546.8	552.6	564.3	574.8	590.0	607.4	623.8	638.9	656.4	676.2
160°	558.5	559.6	564.3	573.6	583.0	595.8	609.8	623.8	635.4	649.4	665.7
162.5°	571.3	570.1	574.8	581.8	590.0	599.3	610.9	622.6	631.9	643.6	656.4
165°	580.6	579.5	581.8	588.8	594.6	601.6	612.1	620.3	627.3	635.4	645.9
167.5°	588.8	587.6	590.0	594.6	599.3	603.9	612.1	619.1	622.6	628.4	635.4
170°	596.9	594.6	595.8	599.3	601.6	605.1	610.9	616.8	619.1	622.6	627.3
172.5°	601.6	600.4	599.3	602.8	603.9	606.3	609.8	613.3	614.4	615.6	619.1
175°	605.1	603.9	602.8	605.1	605.1	606.3	608.6	610.9	609.8	610.9	612.1
177.5°	607.4	605.1	603.9	606.3	606.3	606.3	607.4	609.8	607.4	606.3	607.4
180°	606.3	606.3	606.3	606.3	606.3	606.3	606.3	606.3	606.3	606.3	606.3

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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°	37.3	35.0	37.3	38.5	38.5	38.5	38.5	38.5
92.5°	117.8	100.3	87.4	78.1	77.0	72.3	73.5	71.1
95°	305.5	234.3	185.4	159.7	144.6	135.2	131.7	132.9
97.5°	624.9	499.0	381.3	311.3	265.8	242.5	229.7	222.7
100°	1064.5	919.9	760.2	619.1	522.3	472.2	438.4	417.4
102.5°	1352.5	1347.8	1241.7	1090.1	982.9	888.4	844.1	813.8
105°	1416.6	1548.3	1563.5	1525.0	1452.7	1380.4	1330.3	1314.0
107.5°	1347.8	1543.7	1657.9	1704.6	1703.4	1692.9	1677.7	1650.9
110°	1253.4	1462.1	1611.3	1706.9	1757.0	1779.2	1789.7	1788.5

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	1167.1	1365.3	1527.3	1640.4	1715.1	1755.9	1778.0	1786.2
115°	1099.5	1279.0	1431.7	1551.8	1634.6	1688.2	1718.6	1729.0
117.5°	1043.5	1204.4	1346.6	1460.9	1546.0	1603.1	1634.6	1642.8
120°	1003.8	1148.4	1272.0	1378.1	1459.7	1514.5	1548.3	1560.0
122.5°	972.4	1101.8	1217.2	1310.5	1381.6	1435.2	1464.4	1473.7
125°	942.1	1062.1	1164.7	1252.2	1319.8	1364.1	1393.3	1402.6
127.5°	911.7	1022.5	1120.4	1202.1	1261.5	1303.5	1329.1	1336.1
130°	882.6	982.9	1075.0	1151.9	1209.0	1248.7	1272.0	1281.3
132.5°	854.6	945.6	1028.3	1099.5	1155.4	1195.1	1216.0	1224.2
135°	829.0	905.9	982.9	1048.2	1098.3	1136.8	1157.7	1162.4
137.5°	808.0	874.4	937.4	995.7	1043.5	1077.3	1096.0	1103.0
140°	788.2	844.1	897.8	949.1	986.4	1016.7	1034.2	1041.2
142.5°	771.8	817.3	861.6	902.4	937.4	964.2	979.4	979.4
145°	756.7	795.2	831.3	865.1	893.1	912.9	924.6	928.1
147.5°	745.0	776.5	805.6	831.3	855.8	872.1	880.3	882.6
150°	732.2	757.8	782.3	803.3	820.8	834.8	841.8	843.0
152.5°	719.4	742.7	762.5	780.0	792.8	804.5	809.1	809.1
155°	707.7	726.4	743.9	756.7	769.5	777.7	782.3	780.0
157.5°	693.7	710.0	725.2	735.7	745.0	752.0	754.3	754.3
160°	680.9	693.7	706.5	714.7	722.9	728.7	729.9	729.9
162.5°	668.1	678.6	689.1	694.9	703.0	706.5	707.7	706.5
165°	655.2	663.4	671.6	676.2	680.9	685.6	685.6	684.4
167.5°	642.4	649.4	655.2	659.9	662.2	664.6	664.6	663.4
170°	633.1	636.6	641.3	643.6	644.7	648.2	647.1	644.7
172.5°	622.6	624.9	628.4	629.6	630.8	631.9	630.8	629.6
175°	615.6	616.8	617.9	619.1	619.1	620.3	619.1	616.8
177.5°	609.8	609.8	610.9	610.9	610.9	610.9	609.8	607.4
180°	606.3	606.3	606.3	606.3	606.3	606.3	606.3	606.3

(END OF REPORT)