

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: P1007478

Luminaire Tested: S123IP-B1025UB2750-4F0-XX-W2A-4_3000K

Issue Date: 5/5/2025

Test Information

Test Method: LM-79-2019
Report Number: P1007478
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_3000K
Description: Define 3 Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

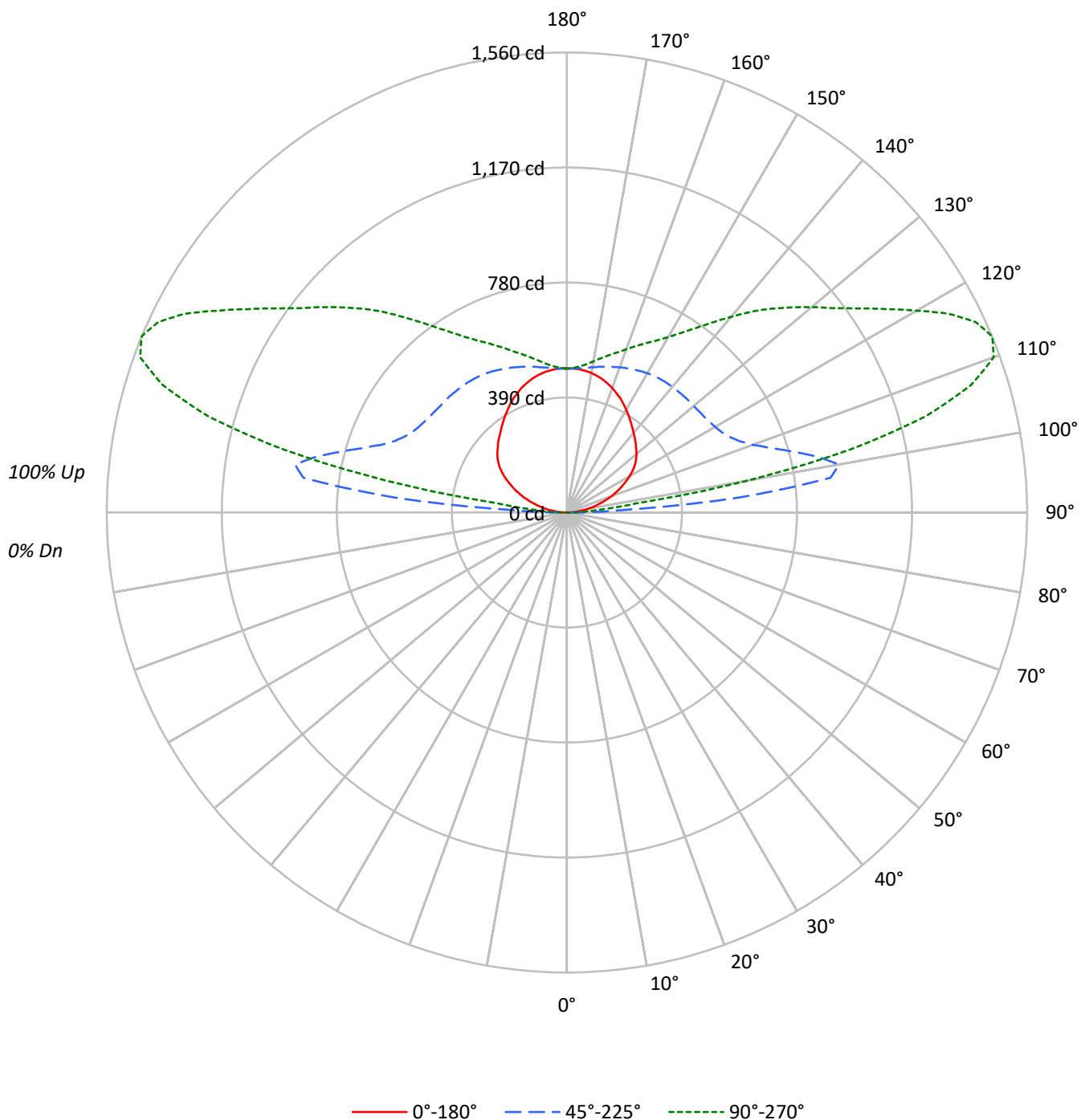
Lumens per Lamp: N/A
Luminaire Lumens: 3675.0 lumens
Efficiency: N/A
Efficacy: 128.9 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 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
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°	2.7	0.1
90°-100°	264.9	7.2
100°-110°	775.6	21.1
110°-120°	757.4	20.6
120°-130°	603.2	16.4
130°-140°	475.9	12.9
140°-150°	355.0	9.7
150°-160°	247.5	6.7
160°-170°	145.4	4.0
170°-180°	47.3	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°	1797.9	48.9
90°-150°	3232.0	87.9
90°-180°	3672.0	99.9
0°-180°	3675.0	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	109	586	171	115	36
105°	115	170	795	1389	1257	122
115°	203	252	608	1333	1529	201
125°	282	333	567	1028	1206	250
135°	330	394	559	846	977	255
145°	376	431	552	694	764	236
155°	428	462	535	608	634	197
165°	467	481	512	543	552	132
175°	487	488	491	498	497	46
180°	488	488	488	488	488	

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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	5.9	8.9	10.9	12.8	15.8	18.8	21.7	24.7	23.7
92.5°	14.8	21.7	31.6	40.5	50.4	68.2	99.8	152.2	203.6	183.8	137.4
95°	33.6	36.6	47.4	64.2	89.9	128.5	212.5	359.7	521.8	586.0	475.4
97.5°	53.4	54.4	63.2	78.1	103.8	146.3	229.3	400.2	673.0	901.3	931.9
100°	73.1	74.1	81.0	94.9	118.6	157.1	226.3	372.6	632.5	935.9	1130.6
102.5°	93.9	95.9	101.8	114.6	135.4	170.0	230.3	348.9	573.2	871.6	1140.5
105°	114.6	117.6	123.5	135.4	154.2	184.8	238.2	340.0	526.7	794.6	1078.2
107.5°	136.4	139.3	145.3	157.1	174.9	203.6	251.0	338.0	493.1	726.4	989.2
110°	160.1	163.1	168.0	178.9	195.7	223.3	267.8	342.9	475.4	670.0	906.2

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	181.8	184.8	189.7	200.6	217.4	244.1	284.6	352.8	465.5	632.5	834.1
115°	202.6	206.5	212.5	222.4	239.2	265.8	303.4	363.7	464.5	607.8	778.7
117.5°	223.3	228.3	233.2	242.1	260.9	285.6	323.2	377.5	465.5	591.0	742.2
120°	245.1	248.1	253.0	262.9	281.7	306.4	341.9	393.3	469.4	580.1	714.5
122.5°	263.9	266.8	271.8	282.6	300.4	327.1	361.7	408.2	476.3	573.2	691.8
125°	281.7	283.6	289.6	300.4	319.2	345.9	380.5	424.0	483.3	567.3	673.0
127.5°	295.5	298.5	305.4	316.2	337.0	363.7	397.3	436.8	491.2	564.3	655.2
130°	308.3	311.3	320.2	332.1	352.8	379.5	412.1	449.7	499.1	561.3	641.4
132.5°	318.2	322.2	332.1	346.9	367.6	393.3	425.0	461.5	505.0	560.3	628.5
135°	330.1	334.0	344.9	359.7	380.5	407.2	437.8	471.4	510.9	559.4	617.7
137.5°	341.0	344.9	355.8	371.6	392.3	417.0	446.7	479.3	514.9	557.4	607.8
140°	351.8	356.8	366.6	382.5	402.2	426.9	455.6	485.2	518.8	556.4	598.9
142.5°	363.7	367.6	378.5	392.3	412.1	434.8	462.5	491.2	521.8	554.4	591.0
145°	376.5	379.5	388.4	403.2	420.0	442.7	468.4	495.1	522.8	552.4	584.1
147.5°	389.4	391.4	400.2	413.1	429.9	449.7	473.4	498.1	522.8	549.5	577.1
150°	402.2	403.2	411.1	424.0	437.8	455.6	478.3	499.1	522.8	545.5	570.2
152.5°	415.1	415.1	423.0	433.8	445.7	462.5	481.3	501.0	519.8	540.6	562.3
155°	427.9	427.9	433.8	443.7	454.6	468.4	485.2	501.0	517.8	534.6	554.4
157.5°	437.8	438.8	443.7	452.6	462.5	473.4	487.2	502.0	514.9	529.7	545.5
160°	449.7	449.7	453.6	461.5	468.4	478.3	490.2	502.0	512.9	523.8	536.6
162.5°	458.6	458.6	461.5	467.4	473.4	481.3	491.2	501.0	509.0	517.8	527.7
165°	467.4	466.5	468.4	473.4	477.3	484.2	492.2	499.1	505.0	511.9	519.8
167.5°	474.4	473.4	474.4	478.3	481.3	486.2	492.2	498.1	501.0	506.0	511.9
170°	480.3	478.3	479.3	482.3	484.2	486.2	491.2	495.1	497.1	500.1	505.0
172.5°	484.2	483.3	483.3	485.2	486.2	487.2	491.2	494.1	494.1	495.1	498.1
175°	487.2	486.2	485.2	487.2	487.2	488.2	490.2	492.2	491.2	491.2	493.1
177.5°	489.2	488.2	487.2	488.2	488.2	488.2	489.2	491.2	489.2	488.2	489.2
180°	488.2	488.2	488.2	488.2	488.2	488.2	488.2	488.2	488.2	488.2	488.2

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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°	24.7	25.7	26.7	28.7	27.7	28.7	29.6	28.7
92.5°	97.8	76.1	66.2	59.3	57.3	53.4	54.4	52.4
95°	355.8	241.1	188.8	153.2	134.4	125.5	118.6	114.6
97.5°	817.3	616.7	486.2	373.6	307.3	269.8	246.1	235.2
100°	1165.2	1085.1	969.5	829.2	729.3	657.2	618.7	619.6
102.5°	1280.8	1297.6	1242.2	1166.1	1094.0	1040.6	1010.0	981.3
105°	1284.7	1383.6	1402.3	1376.6	1331.2	1293.6	1262.0	1257.1
107.5°	1225.4	1380.6	1457.7	1484.4	1478.4	1460.6	1447.8	1436.9
110°	1132.5	1314.4	1438.9	1508.1	1535.8	1543.7	1541.7	1539.7

TEST NUMBER: P1007478

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	1040.6	1227.4	1370.7	1464.6	1520.9	1549.6	1559.5	1560.5
115°	961.6	1133.5	1278.8	1386.5	1460.6	1504.1	1523.9	1528.8
117.5°	900.3	1052.5	1185.9	1297.6	1374.7	1423.1	1452.7	1459.7
120°	853.9	987.3	1105.9	1205.7	1283.8	1339.1	1362.8	1368.7
122.5°	817.3	934.9	1042.6	1133.5	1200.7	1249.2	1275.8	1283.8
125°	785.7	893.4	988.3	1067.3	1130.6	1174.1	1198.8	1205.7
127.5°	757.0	854.8	941.8	1014.9	1072.3	1109.8	1132.5	1138.5
130°	730.3	819.3	899.3	966.5	1018.9	1054.5	1075.2	1083.1
132.5°	705.6	785.7	858.8	922.0	970.5	1006.0	1023.8	1028.8
135°	683.9	754.0	818.3	874.6	923.0	952.7	970.5	977.4
137.5°	663.1	722.4	779.7	830.1	871.6	902.3	917.1	923.0
140°	645.3	695.7	743.2	785.7	823.2	850.9	866.7	865.7
142.5°	628.5	670.0	709.6	745.1	775.8	799.5	813.3	812.4
145°	615.7	648.3	679.9	708.6	733.3	754.0	761.9	763.9
147.5°	604.8	631.5	658.2	678.9	698.7	713.5	721.4	722.4
150°	593.0	615.7	636.4	655.2	670.0	680.9	686.8	686.8
152.5°	582.1	600.9	618.7	633.5	644.3	654.2	657.2	657.2
155°	571.2	587.0	601.9	613.7	622.6	630.5	632.5	633.5
157.5°	559.4	573.2	585.1	594.9	602.8	608.8	610.7	610.7
160°	549.5	560.3	570.2	577.1	584.1	590.0	590.0	589.0
162.5°	537.6	546.5	555.4	561.3	565.3	570.2	570.2	569.2
165°	527.7	533.7	540.6	545.5	549.5	553.4	552.4	552.4
167.5°	518.8	523.8	527.7	531.7	533.7	536.6	535.6	535.6
170°	509.9	512.9	516.9	518.8	519.8	521.8	520.8	520.8
172.5°	502.0	504.0	507.0	508.0	508.0	509.9	508.0	507.0
175°	495.1	496.1	498.1	498.1	498.1	499.1	498.1	497.1
177.5°	490.2	491.2	492.2	492.2	491.2	492.2	490.2	490.2
180°	488.2	488.2	488.2	488.2	488.2	488.2	488.2	488.2

(END OF REPORT)