

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: P1007617

Luminaire Tested: S123IP-B805UB50-4F0-XX-W2A-4

Issue Date: 5/5/2025

Test Information

Test Method: LM-79-2019
Report Number: P1007617
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-B805UB50-4F0-XX-W2A-4
Description: Define 3 Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

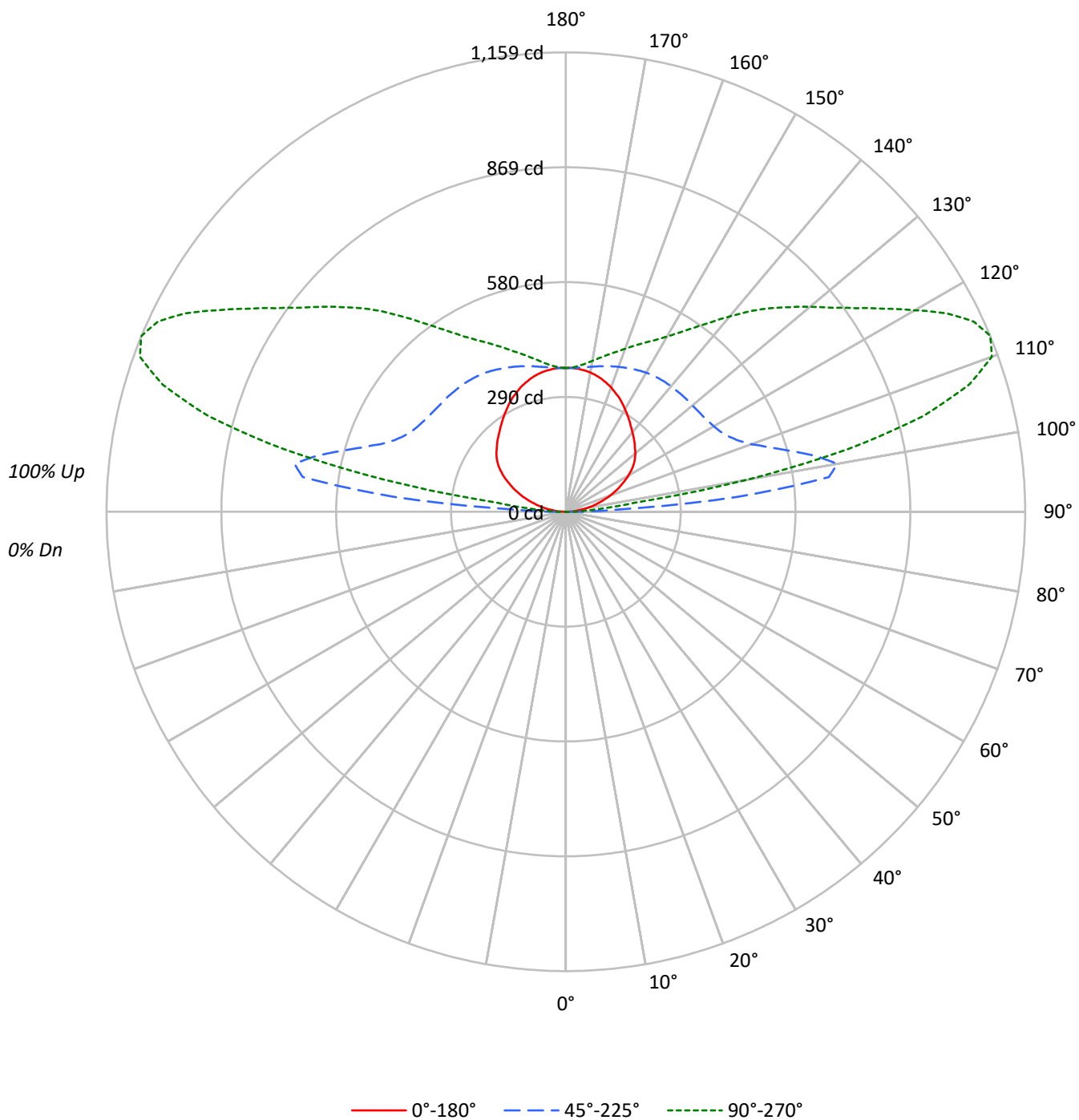
Lumens per Lamp: N/A
Luminaire Lumens: 2730.0 lumens
Efficiency: N/A
Efficacy: 129.4 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 21.1
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

TEST NUMBER: P1007617

CATALOG NUMBER: S123IP-B805UB50-4F0-XX-W2A-4

Luminous Intensity Polar Plot



TEST NUMBER: P1007617

CATALOG NUMBER: S123IP-B805UB50-4F0-XX-W2A-4

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

TEST NUMBER: P1007617

CATALOG NUMBER: S123IP-B805UB50-4F0-XX-W2A-4

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°	2.0	0.1
90°-100°	196.8	7.2
100°-110°	576.2	21.1
110°-120°	562.6	20.6
120°-130°	448.1	16.4
130°-140°	353.5	12.9
140°-150°	263.7	9.7
150°-160°	183.9	6.7
160°-170°	108.0	4.0
170°-180°	35.1	1.3
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.0	0.1
90°-120°	1335.6	48.9
90°-150°	2400.9	87.9
90°-180°	2728.0	99.9
0°-180°	2730.0	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	9	18	21	21	2
95°	25	81	435	127	85	26
105°	85	126	590	1032	934	90
115°	150	188	452	990	1136	149
125°	209	247	421	764	896	186
135°	245	293	416	629	726	189
145°	280	320	410	516	568	175
155°	318	343	397	452	471	146
165°	347	357	380	403	410	98
175°	362	362	365	370	369	34
180°	363	363	363	363	363	

TEST NUMBER: P1007617

CATALOG NUMBER: S123IP-B805UB50-4F0-XX-W2A-4

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°	1.5	2.9	4.4	6.6	8.1	9.5	11.7	13.9	16.2	18.4	17.6
92.5°	11.0	16.2	23.5	30.1	37.4	50.7	74.1	113.1	151.2	136.5	102.0
95°	25.0	27.2	35.2	47.7	66.8	95.4	157.8	267.2	387.6	435.3	353.1
97.5°	39.6	40.4	47.0	58.0	77.1	108.7	170.3	297.3	499.9	669.5	692.3
100°	54.3	55.1	60.2	70.5	88.1	116.7	168.1	276.8	469.8	695.2	839.9
102.5°	69.7	71.2	75.6	85.2	100.6	126.3	171.1	259.2	425.8	647.5	847.2
105°	85.2	87.4	91.8	100.6	114.5	137.3	176.9	252.5	391.3	590.2	800.9
107.5°	101.3	103.5	107.9	116.7	129.9	151.2	186.5	251.1	366.3	539.6	734.9
110°	118.9	121.1	124.8	132.9	145.4	165.9	199.0	254.7	353.1	497.7	673.2

TEST NUMBER: P1007617

CATALOG NUMBER: S123IP-B805UB50-4F0-XX-W2A-4

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	135.1	137.3	141.0	149.0	161.5	181.3	211.4	262.1	345.8	469.8	619.6
115°	150.5	153.4	157.8	165.2	177.7	197.5	225.4	270.2	345.0	451.5	578.5
117.5°	165.9	169.6	173.3	179.9	193.8	212.2	240.1	280.4	345.8	439.0	551.3
120°	182.1	184.3	187.9	195.3	209.2	227.6	254.0	292.2	348.7	430.9	530.8
122.5°	196.0	198.2	201.9	210.0	223.2	243.0	268.7	303.2	353.9	425.8	513.9
125°	209.2	210.7	215.1	223.2	237.1	256.9	282.6	314.9	359.0	421.4	499.9
127.5°	219.5	221.7	226.8	234.9	250.3	270.2	295.1	324.5	364.9	419.2	486.7
130°	229.1	231.3	237.9	246.7	262.1	281.9	306.1	334.0	370.7	417.0	476.5
132.5°	236.4	239.3	246.7	257.7	273.1	292.2	315.7	342.8	375.1	416.3	466.9
135°	245.2	248.1	256.2	267.2	282.6	302.5	325.2	350.2	379.5	415.5	458.8
137.5°	253.3	256.2	264.3	276.0	291.5	309.8	331.8	356.1	382.5	414.1	451.5
140°	261.4	265.0	272.4	284.1	298.8	317.1	338.4	360.5	385.4	413.3	444.9
142.5°	270.2	273.1	281.2	291.5	306.1	323.0	343.6	364.9	387.6	411.9	439.0
145°	279.7	281.9	288.5	299.5	312.0	328.9	348.0	367.8	388.4	410.4	433.9
147.5°	289.2	290.7	297.3	306.9	319.3	334.0	351.7	370.0	388.4	408.2	428.7
150°	298.8	299.5	305.4	314.9	325.2	338.4	355.3	370.7	388.4	405.2	423.6
152.5°	308.3	308.3	314.2	322.3	331.1	343.6	357.5	372.2	386.2	401.6	417.7
155°	317.9	317.9	322.3	329.6	337.7	348.0	360.5	372.2	384.7	397.2	411.9
157.5°	325.2	326.0	329.6	336.2	343.6	351.7	361.9	372.9	382.5	393.5	405.2
160°	334.0	334.0	337.0	342.8	348.0	355.3	364.1	372.9	381.0	389.1	398.6
162.5°	340.6	340.6	342.8	347.2	351.7	357.5	364.9	372.2	378.1	384.7	392.0
165°	347.2	346.5	348.0	351.7	354.6	359.7	365.6	370.7	375.1	380.3	386.2
167.5°	352.4	351.7	352.4	355.3	357.5	361.2	365.6	370.0	372.2	375.9	380.3
170°	356.8	355.3	356.1	358.3	359.7	361.2	364.9	367.8	369.3	371.5	375.1
172.5°	359.7	359.0	359.0	360.5	361.2	361.9	364.9	367.1	367.1	367.8	370.0
175°	361.9	361.2	360.5	361.9	361.9	362.7	364.1	365.6	364.9	364.9	366.3
177.5°	363.4	362.7	361.9	362.7	362.7	362.7	363.4	364.9	363.4	362.7	363.4
180°	362.7	362.7	362.7	362.7	362.7	362.7	362.7	362.7	362.7	362.7	362.7

TEST NUMBER: P1007617

CATALOG NUMBER: S123IP-B805UB50-4F0-XX-W2A-4

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°	18.4	19.1	19.8	21.3	20.6	21.3	22.0	21.3
92.5°	72.7	56.5	49.2	44.0	42.6	39.6	40.4	38.9
95°	264.3	179.1	140.2	113.8	99.8	93.2	88.1	85.2
97.5°	607.1	458.1	361.2	277.5	228.3	200.4	182.8	174.7
100°	865.5	806.1	720.2	615.9	541.8	488.2	459.6	460.3
102.5°	951.4	963.9	922.8	866.3	812.7	773.0	750.3	729.0
105°	954.4	1027.8	1041.7	1022.7	988.9	961.0	937.5	933.8
107.5°	910.3	1025.6	1082.9	1102.7	1098.3	1085.1	1075.5	1067.4
110°	841.3	976.4	1068.9	1120.3	1140.8	1146.7	1145.3	1143.8

TEST NUMBER: P1007617

CATALOG NUMBER: S123IP-B805UB50-4F0-XX-W2A-4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	773.0	911.8	1018.2	1088.0	1129.8	1151.1	1158.5	1159.2
115°	714.3	842.1	950.0	1030.0	1085.1	1117.4	1132.0	1135.7
117.5°	668.8	781.9	881.0	963.9	1021.2	1057.2	1079.2	1084.3
120°	634.3	733.4	821.5	895.6	953.6	994.8	1012.4	1016.8
122.5°	607.1	694.5	774.5	842.1	892.0	927.9	947.8	953.6
125°	583.6	663.7	734.1	792.9	839.9	872.2	890.5	895.6
127.5°	562.3	635.0	699.6	754.0	796.5	824.4	841.3	845.7
130°	542.5	608.6	668.1	718.0	756.9	783.3	798.7	804.6
132.5°	524.2	583.6	638.0	684.9	720.9	747.4	760.6	764.2
135°	508.0	560.1	607.9	649.7	685.7	707.7	720.9	726.1
137.5°	492.6	536.7	579.2	616.7	647.5	670.3	681.3	685.7
140°	479.4	516.8	552.1	583.6	611.5	632.1	643.8	643.1
142.5°	466.9	497.7	527.1	553.5	576.3	593.9	604.2	603.5
145°	457.4	481.6	505.1	526.4	544.7	560.1	566.0	567.5
147.5°	449.3	469.1	488.9	504.4	519.0	530.0	535.9	536.7
150°	440.5	457.4	472.8	486.7	497.7	505.8	510.2	510.2
152.5°	432.4	446.4	459.6	470.6	478.7	486.0	488.2	488.2
155°	424.3	436.1	447.1	455.9	462.5	468.4	469.8	470.6
157.5°	415.5	425.8	434.6	442.0	447.8	452.2	453.7	453.7
160°	408.2	416.3	423.6	428.7	433.9	438.3	438.3	437.5
162.5°	399.4	406.0	412.6	417.0	419.9	423.6	423.6	422.9
165°	392.0	396.4	401.6	405.2	408.2	411.1	410.4	410.4
167.5°	385.4	389.1	392.0	395.0	396.4	398.6	397.9	397.9
170°	378.8	381.0	384.0	385.4	386.2	387.6	386.9	386.9
172.5°	372.9	374.4	376.6	377.3	377.3	378.8	377.3	376.6
175°	367.8	368.5	370.0	370.0	370.0	370.7	370.0	369.3
177.5°	364.1	364.9	365.6	365.6	364.9	365.6	364.1	364.1
180°	362.7	362.7	362.7	362.7	362.7	362.7	362.7	362.7

(END OF REPORT)