

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: P1007890

Luminaire Tested: S125IP-B850UB27-4F0-XX-W2A-4

Issue Date: 5/5/2025

Test Information

Test Method: LM-79-2019
Report Number: P1007890
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125IP-B850UB27-4F0-XX-W2A-4
Description: Define 5 Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

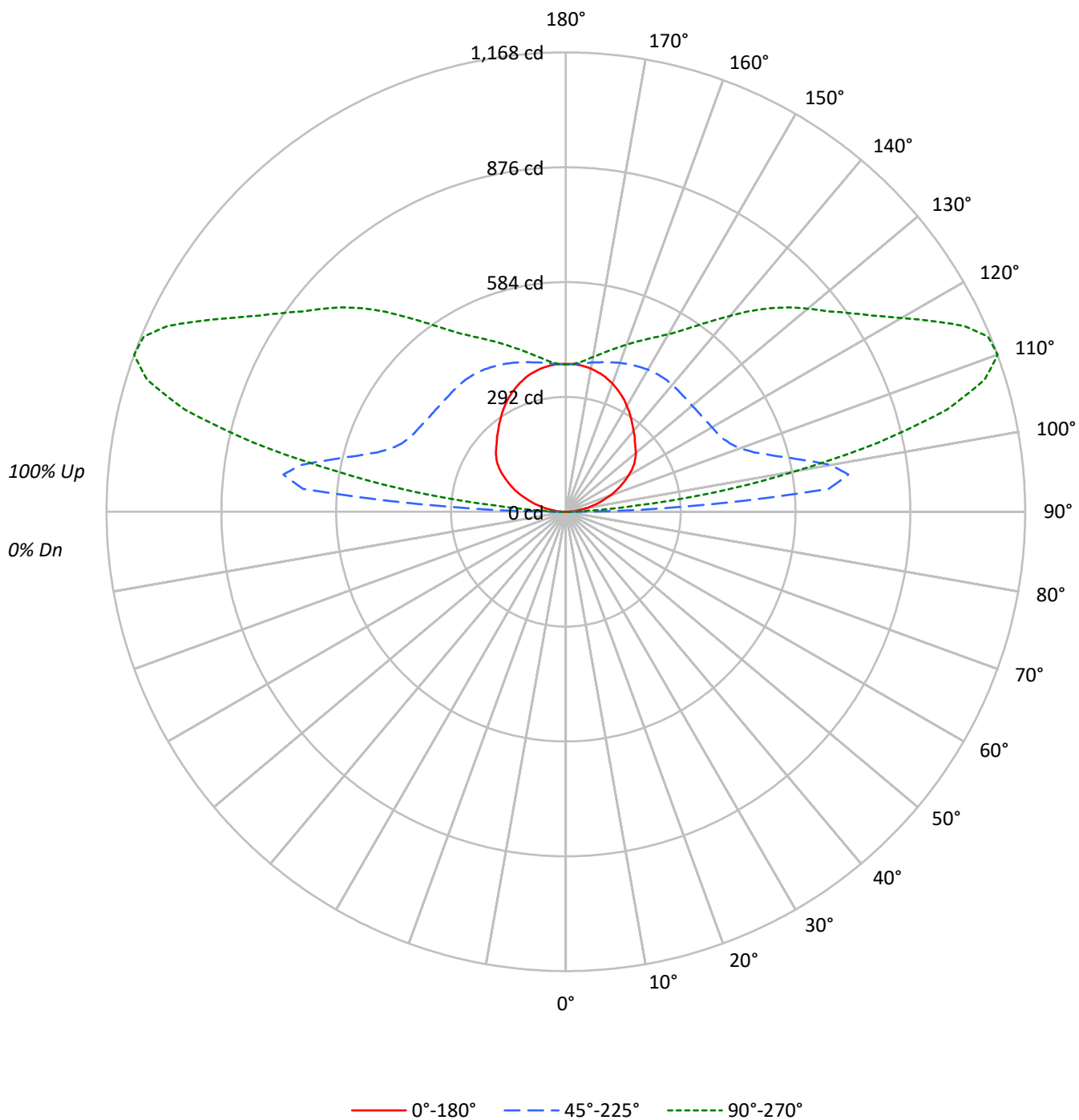
Lumens per Lamp: N/A
Luminaire Lumens: 2822.0 lumens
Efficiency: N/A
Efficacy: 133.7 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Indirect

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

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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°	1.5	0.1
90°-100°	273.2	9.7
100°-110°	589.0	20.9
110°-120°	549.2	19.5
120°-130°	444.8	15.8
130°-140°	357.1	12.7
140°-150°	269.4	9.5
150°-160°	189.7	6.7
160°-170°	111.8	4.0
170°-180°	36.4	1.3
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.5	0.1
90°-120°	1411.4	50.0
90°-150°	2482.6	88.0
90°-180°	2821.0	100.0
0°-180°	2822.0	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	7	12	16	17	2
95°	25	74	671	304	178	26
105°	86	120	549	1081	1003	90
115°	153	184	441	950	1118	151
125°	212	248	422	756	880	188
135°	248	299	419	633	731	193
145°	289	331	421	524	577	181
155°	330	355	410	464	484	152
165°	360	370	394	418	424	102
175°	375	375	378	382	381	36
180°	376	376	376	376	376	

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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°	0.8	1.5	3.0	4.5	6.1	7.6	8.3	9.8	10.6	12.1	12.9
92.5°	11.4	13.6	21.2	32.6	48.5	75.7	127.2	213.5	307.4	302.1	243.8
95°	25.0	25.7	31.8	40.1	56.8	90.9	171.9	338.4	547.4	670.8	656.4
97.5°	38.6	39.4	43.9	52.2	67.4	92.4	148.4	276.3	502.0	724.5	819.9
100°	53.0	54.5	57.5	65.9	80.3	103.0	146.9	245.3	436.1	683.7	872.9
102.5°	68.9	69.7	71.9	81.0	93.9	115.8	153.7	232.4	386.1	611.7	841.1
105°	85.6	85.6	89.3	96.9	109.0	130.2	163.5	230.9	357.3	548.9	766.2
107.5°	101.5	103.0	106.8	112.8	125.7	144.6	177.2	236.2	342.2	502.0	695.0
110°	118.9	120.4	123.4	130.2	141.6	161.3	192.3	244.5	336.1	470.9	636.0

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	136.3	137.8	140.1	146.9	158.2	177.2	206.7	255.1	336.1	452.7	592.0
115°	152.9	154.4	156.7	163.5	174.9	193.8	221.8	265.7	338.4	440.6	562.5
117.5°	168.1	170.3	172.6	179.4	192.3	210.5	237.0	277.9	342.2	433.8	542.8
120°	183.2	185.5	188.5	195.3	208.2	227.1	253.6	290.0	348.3	429.3	526.9
122.5°	199.1	200.6	202.9	209.7	224.1	243.0	269.5	303.6	353.6	425.5	513.3
125°	212.0	213.5	217.3	224.1	238.5	258.2	283.2	315.7	359.6	422.5	501.2
127.5°	222.6	224.9	229.4	237.7	252.9	272.6	296.8	327.1	366.4	420.9	489.8
130°	232.4	234.7	240.8	250.6	266.5	286.2	309.7	338.4	372.5	419.4	478.5
132.5°	240.0	243.0	250.6	262.0	278.6	298.3	321.8	348.3	379.3	419.4	469.4
135°	248.3	251.4	260.4	272.6	288.5	308.9	332.4	357.3	385.4	419.4	462.6
137.5°	258.9	261.2	269.5	281.6	297.5	318.7	339.9	364.2	391.4	420.2	455.8
140°	268.0	270.3	279.4	291.5	305.9	326.3	348.3	371.0	395.2	420.9	451.2
142.5°	278.6	280.1	288.5	300.6	314.2	333.1	353.6	374.8	397.5	421.7	447.4
145°	289.2	290.7	298.3	308.9	322.5	339.9	359.6	378.5	399.0	420.9	443.7
147.5°	300.6	301.3	308.1	318.0	330.1	346.0	363.4	380.8	399.7	419.4	439.9
150°	310.4	311.9	317.2	327.1	337.7	350.5	367.2	383.1	399.7	417.2	435.3
152.5°	321.0	321.8	326.3	334.6	344.5	355.8	371.0	384.6	399.0	414.1	430.0
155°	330.1	330.1	334.6	342.2	349.8	360.4	373.2	385.4	397.5	410.3	424.0
157.5°	338.4	338.4	342.2	349.0	355.8	364.2	375.5	386.1	396.0	406.6	418.7
160°	346.7	346.0	349.0	354.3	360.4	367.2	377.0	386.1	393.7	402.8	411.9
162.5°	353.6	352.8	355.8	360.4	364.9	370.2	378.5	385.4	391.4	398.2	405.8
165°	360.4	358.9	361.1	364.9	367.9	372.5	378.5	384.6	389.1	393.7	399.7
167.5°	364.9	364.2	365.7	367.9	370.2	373.2	378.5	383.1	385.4	389.1	393.7
170°	369.5	368.7	369.5	371.0	372.5	374.8	378.5	381.6	383.1	385.4	388.4
172.5°	372.5	371.0	371.7	373.2	374.0	374.8	377.8	380.1	380.1	380.8	383.1
175°	374.8	373.2	374.0	374.8	374.8	374.8	377.0	378.5	377.8	377.8	378.5
177.5°	376.3	374.8	374.8	375.5	374.8	374.8	376.3	377.0	375.5	375.5	376.3
180°	375.5	375.5	375.5	375.5	375.5	375.5	375.5	375.5	375.5	375.5	375.5

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CATALOG NUMBER: S125IP-B850UB27-4F0-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°	13.6	14.4	15.1	16.7	16.7	16.7	17.4	17.4
92.5°	164.3	118.1	87.8	73.4	61.3	59.1	57.5	56.0
95°	544.3	429.3	336.1	272.6	218.8	196.1	190.0	177.9
97.5°	780.6	689.0	595.1	504.2	458.8	419.4	399.0	389.9
100°	931.2	894.1	816.1	737.4	685.2	630.7	602.6	590.5
102.5°	981.9	1019.8	992.5	945.6	888.8	854.0	823.0	814.6
105°	947.9	1051.6	1084.9	1076.6	1052.4	1027.4	1012.2	1003.1
107.5°	878.2	1015.3	1095.5	1128.8	1135.6	1131.9	1124.3	1116.7
110°	799.5	943.3	1050.1	1114.4	1148.5	1162.9	1168.2	1168.2

TEST NUMBER: P1007890

CATALOG NUMBER: S125IP-B850UB27-4F0-XX-W2A-4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	737.4	872.2	980.4	1059.2	1112.9	1140.2	1155.3	1162.1
115°	687.4	804.8	908.5	991.0	1050.1	1086.4	1107.6	1117.5
117.5°	652.6	756.3	847.2	925.2	985.0	1022.8	1044.0	1050.1
120°	625.4	716.2	799.5	866.1	922.1	958.5	978.9	985.0
122.5°	604.9	687.4	759.4	820.7	869.1	901.7	922.1	927.4
125°	585.2	662.5	728.3	782.8	825.2	856.3	872.9	880.5
127.5°	564.8	638.2	700.3	751.8	790.4	818.4	834.3	837.3
130°	545.9	612.5	671.5	720.8	758.6	783.6	798.7	803.3
132.5°	526.9	588.3	640.5	687.4	725.3	750.3	763.9	769.2
135°	511.0	563.3	611.7	654.9	688.2	713.2	726.8	731.4
137.5°	496.7	540.6	582.2	620.1	650.3	673.8	686.7	692.0
140°	485.3	520.9	555.7	587.5	615.5	635.2	646.6	650.3
142.5°	475.5	504.2	533.0	559.5	582.2	598.1	608.7	611.7
145°	467.1	490.6	514.1	534.5	552.7	565.5	573.9	576.9
147.5°	458.8	478.5	497.4	513.3	528.5	539.0	544.3	545.9
150°	452.0	468.6	483.0	496.7	508.0	517.1	520.1	520.9
152.5°	444.4	458.8	471.7	481.5	490.6	497.4	500.4	501.2
155°	436.8	449.0	459.6	467.9	475.5	480.8	483.0	483.8
157.5°	429.3	439.9	448.2	455.0	461.1	465.6	467.9	467.9
160°	421.7	429.3	436.8	442.1	447.4	451.2	452.7	452.0
162.5°	413.4	420.2	426.2	430.8	434.6	437.6	437.6	437.6
165°	405.8	411.1	415.6	419.4	422.5	424.0	424.0	424.0
167.5°	398.2	402.0	405.8	408.8	410.3	411.9	411.1	411.1
170°	392.2	394.4	396.7	398.2	399.7	400.5	400.5	399.7
172.5°	385.4	387.6	389.1	389.9	389.9	391.4	389.9	389.1
175°	380.8	380.8	382.3	382.3	382.3	383.1	381.6	380.8
177.5°	377.0	377.8	377.8	377.8	377.0	377.8	375.5	375.5
180°	375.5	375.5	375.5	375.5	375.5	375.5	375.5	375.5

(END OF REPORT)