

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: NEO-RAY

Report Number: P334990

Luminaire Tested: **S125IP-S365U935-4F0-1E-UDD-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334990
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125IP-S365U935-4F0-1E-UDD-4
Description: DEFINE 5 INDIRECT LED LUMINAIRE, BATWING OPTIC
PENDANT MOUNT, 365 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

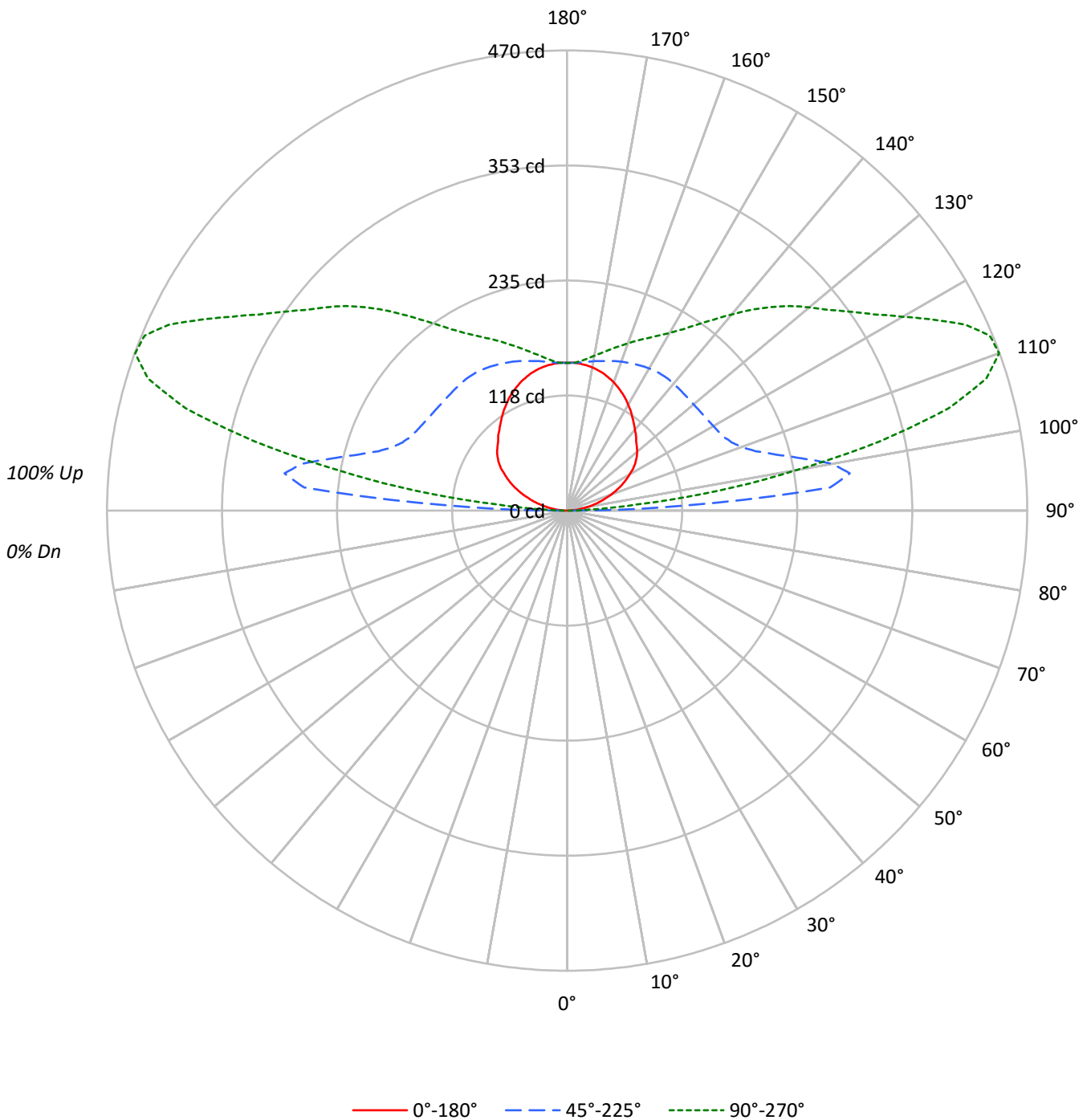
Lumens per Lamp: N/A
Luminaire Lumens: 1134.2 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 11.4
Input Voltage (V): 120
Input Current (A_{in}): 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: 25 FT



TEST NUMBER: P334990
CATALOG NUMBER: S125IP-S365U935-4F0-1E-UDD-4

Luminous Intensity Polar Plot





TEST NUMBER: P334990

CATALOG NUMBER: S125IP-S365U935-4F0-1E-UDD-4

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



TEST NUMBER: P334990

CATALOG NUMBER: S125IP-S365U935-4F0-1E-UDD-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°	0.6	0.1
90°-100°	109.8	9.7
100°-110°	236.7	20.9
110°-120°	220.7	19.5
120°-130°	178.8	15.8
130°-140°	143.5	12.7
140°-150°	108.3	9.5
150°-160°	76.2	6.7
160°-170°	44.9	4.0
170°-180°	14.6	1.3
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	0.6	0.1
90°-120°	567.2	50.0
90°-150°	997.8	88.0
90°-180°	1134.0	100.0
0°-180°	1134.2	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°	0	3	5	6	7	1
95°	10	30	270	122	72	10
105°	34	48	221	434	403	36
115°	62	74	177	382	449	61
125°	85	100	170	304	354	76
135°	100	120	169	255	294	77
145°	116	133	169	211	232	73
155°	133	143	165	186	194	61
165°	145	149	158	168	170	41
175°	151	151	152	154	153	14
180°	151	151	151	151	151	



TEST NUMBER: P334990

CATALOG NUMBER: S125IP-S365U935-4F0-1E-UDD-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°	0.3	0.6	1.2	1.8	2.4	3.0	3.3	4.0	4.3	4.9	5.2
92.5°	4.6	5.5	8.5	13.1	19.5	30.4	51.1	85.8	123.5	121.4	98.0
95°	10.0	10.3	12.8	16.1	22.8	36.5	69.1	136.0	220.0	269.6	263.8
97.5°	15.5	15.8	17.6	21.0	27.1	37.1	59.6	111.1	201.7	291.2	329.5
100°	21.3	21.9	23.1	26.5	32.3	41.4	59.0	98.6	175.3	274.8	350.8
102.5°	27.7	28.0	28.9	32.6	37.7	46.6	61.8	93.4	155.2	245.9	338.1
105°	34.4	34.4	35.9	38.9	43.8	52.3	65.7	92.8	143.6	220.6	307.9
107.5°	40.8	41.4	42.9	45.3	50.5	58.1	71.2	94.9	137.5	201.7	279.3
110°	47.8	48.4	49.6	52.3	56.9	64.8	77.3	98.3	135.1	189.3	255.6



TEST NUMBER: P334990

CATALOG NUMBER: S125IP-S365U935-4F0-1E-UDD-4

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	54.8	55.4	56.3	59.0	63.6	71.2	83.1	102.5	135.1	182.0	238.0
115°	61.5	62.1	63.0	65.7	70.3	77.9	89.2	106.8	136.0	177.1	226.1
117.5°	67.6	68.5	69.4	72.1	77.3	84.6	95.2	111.7	137.5	174.4	218.2
120°	73.6	74.6	75.8	78.5	83.7	91.3	101.9	116.5	140.0	172.5	211.8
122.5°	80.0	80.6	81.5	84.3	90.1	97.7	108.3	122.0	142.1	171.0	206.3
125°	85.2	85.8	87.3	90.1	95.9	103.8	113.8	126.9	144.5	169.8	201.4
127.5°	89.5	90.4	92.2	95.5	101.6	109.5	119.3	131.5	147.3	169.2	196.9
130°	93.4	94.3	96.8	100.7	107.1	115.0	124.5	136.0	149.7	168.6	192.3
132.5°	96.5	97.7	100.7	105.3	112.0	119.9	129.3	140.0	152.4	168.6	188.7
135°	99.8	101.0	104.7	109.5	115.9	124.2	133.6	143.6	154.9	168.6	185.9
137.5°	104.1	105.0	108.3	113.2	119.6	128.1	136.6	146.4	157.3	168.9	183.2
140°	107.7	108.6	112.3	117.2	122.9	131.1	140.0	149.1	158.8	169.2	181.4
142.5°	112.0	112.6	115.9	120.8	126.3	133.9	142.1	150.6	159.8	169.5	179.8
145°	116.2	116.8	119.9	124.2	129.6	136.6	144.5	152.1	160.4	169.2	178.3
147.5°	120.8	121.1	123.8	127.8	132.7	139.1	146.1	153.1	160.7	168.6	176.8
150°	124.8	125.4	127.5	131.5	135.7	140.9	147.6	154.0	160.7	167.7	175.0
152.5°	129.0	129.3	131.1	134.5	138.5	143.0	149.1	154.6	160.4	166.4	172.8
155°	132.7	132.7	134.5	137.5	140.6	144.8	150.0	154.9	159.8	164.9	170.4
157.5°	136.0	136.0	137.5	140.3	143.0	146.4	150.9	155.2	159.1	163.4	168.3
160°	139.4	139.1	140.3	142.4	144.8	147.6	151.5	155.2	158.2	161.9	165.5
162.5°	142.1	141.8	143.0	144.8	146.7	148.8	152.1	154.9	157.3	160.1	163.1
165°	144.8	144.2	145.1	146.7	147.9	149.7	152.1	154.6	156.4	158.2	160.7
167.5°	146.7	146.4	147.0	147.9	148.8	150.0	152.1	154.0	154.9	156.4	158.2
170°	148.5	148.2	148.5	149.1	149.7	150.6	152.1	153.4	154.0	154.9	156.1
172.5°	149.7	149.1	149.4	150.0	150.3	150.6	151.8	152.8	152.8	153.1	154.0
175°	150.6	150.0	150.3	150.6	150.6	150.6	151.5	152.1	151.8	151.8	152.1
177.5°	151.2	150.6	150.6	150.9	150.6	150.6	151.2	151.5	150.9	150.9	151.2
180°	150.9	150.9	150.9	150.9	150.9	150.9	150.9	150.9	150.9	150.9	150.9



TEST NUMBER: P334990

CATALOG NUMBER: S125IP-S365U935-4F0-1E-UDD-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°	5.5	5.8	6.1	6.7	6.7	6.7	7.0	7.0
92.5°	66.0	47.5	35.3	29.5	24.6	23.7	23.1	22.5
95°	218.8	172.5	135.1	109.5	87.9	78.8	76.4	71.5
97.5°	313.7	276.9	239.2	202.7	184.4	168.6	160.4	156.7
100°	374.3	359.4	328.0	296.4	275.4	253.5	242.2	237.3
102.5°	394.7	409.9	398.9	380.1	357.2	343.2	330.8	327.4
105°	381.0	422.7	436.0	432.7	423.0	412.9	406.8	403.2
107.5°	353.0	408.1	440.3	453.7	456.4	454.9	451.9	448.8
110°	321.3	379.1	422.0	447.9	461.6	467.4	469.5	469.5



TEST NUMBER: P334990

CATALOG NUMBER: S125IP-S365U935-4F0-1E-UDD-4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	296.4	350.5	394.1	425.7	447.3	458.3	464.3	467.1
115°	276.3	323.5	365.1	398.3	422.0	436.7	445.2	449.1
117.5°	262.3	304.0	340.5	371.8	395.9	411.1	419.6	422.0
120°	251.3	287.9	321.3	348.1	370.6	385.2	393.4	395.9
122.5°	243.1	276.3	305.2	329.9	349.3	362.4	370.6	372.8
125°	235.2	266.3	292.7	314.6	331.7	344.2	350.8	353.9
127.5°	227.0	256.5	281.5	302.2	317.7	328.9	335.3	336.5
130°	219.4	246.2	269.9	289.7	304.9	314.9	321.0	322.9
132.5°	211.8	236.4	257.4	276.3	291.5	301.6	307.0	309.2
135°	205.4	226.4	245.9	263.2	276.6	286.6	292.1	293.9
137.5°	199.6	217.3	234.0	249.2	261.4	270.8	276.0	278.1
140°	195.0	209.4	223.3	236.1	247.4	255.3	259.9	261.4
142.5°	191.1	202.7	214.2	224.9	234.0	240.4	244.6	245.9
145°	187.7	197.2	206.6	214.8	222.1	227.3	230.7	231.9
147.5°	184.4	192.3	199.9	206.3	212.4	216.7	218.8	219.4
150°	181.7	188.4	194.1	199.6	204.2	207.8	209.0	209.4
152.5°	178.6	184.4	189.6	193.5	197.2	199.9	201.1	201.4
155°	175.6	180.4	184.7	188.1	191.1	193.2	194.1	194.4
157.5°	172.5	176.8	180.1	182.9	185.3	187.1	188.1	188.1
160°	169.5	172.5	175.6	177.7	179.8	181.4	182.0	181.7
162.5°	166.1	168.9	171.3	173.1	174.7	175.9	175.9	175.9
165°	163.1	165.2	167.1	168.6	169.8	170.4	170.4	170.4
167.5°	160.1	161.6	163.1	164.3	164.9	165.5	165.2	165.2
170°	157.6	158.5	159.4	160.1	160.7	161.0	161.0	160.7
172.5°	154.9	155.8	156.4	156.7	156.7	157.3	156.7	156.4
175°	153.1	153.1	153.7	153.7	153.7	154.0	153.4	153.1
177.5°	151.5	151.8	151.8	151.8	151.5	151.8	150.9	150.9
180°	150.9	150.9	150.9	150.9	150.9	150.9	150.9	150.9

(END OF REPORT)