

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: P334985

Luminaire Tested: **S125IP-S365U930-4F0-1E-UDD-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334985
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-S365U930-4F0-1E-UDD-4
Description: DEFINE 5 INDIRECT LED LUMINAIRE, BATWING OPTIC
PENDANT MOUNT, 365 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

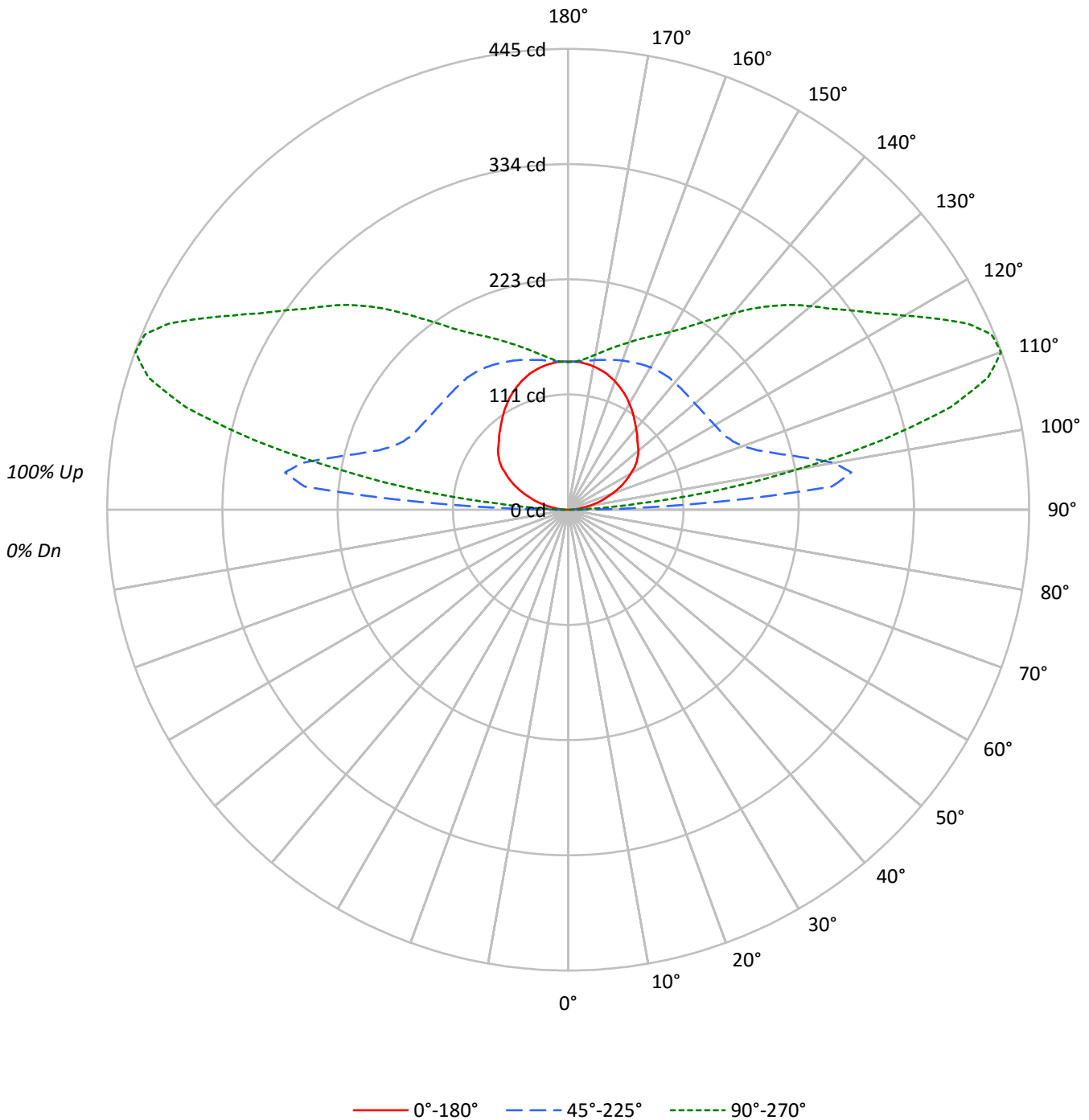
Lumens per Lamp: N/A
Luminaire Lumens: 1074.0 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Indirect

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: P334985
CATALOG NUMBER: S125IP-S365U930-4F0-1E-UDD-4

Luminous Intensity Polar Plot





TEST NUMBER: P334985

CATALOG NUMBER: S125IP-S365U930-4F0-1E-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: P334985

CATALOG NUMBER: S125IP-S365U930-4F0-1E-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°	104.0	9.7
100°-110°	224.2	20.9
110°-120°	209.0	19.5
120°-130°	169.3	15.8
130°-140°	135.9	12.7
140°-150°	102.5	9.5
150°-160°	72.2	6.7
160°-170°	42.6	4.0
170°-180°	13.8	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°	537.1	50.0
90°-150°	944.8	88.0
90°-180°	1073.0	99.9
0°-180°	1074.0	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°	0	3	5	6	7	1
95°	10	28	255	116	68	10
105°	33	46	209	411	382	34
115°	58	70	168	362	425	57
125°	81	95	161	288	335	72
135°	94	114	160	241	278	73
145°	110	126	160	200	220	69
155°	126	135	156	176	184	58
165°	137	141	150	159	161	39
175°	143	143	144	146	145	14
180°	143	143	143	143	143	



TEST NUMBER: P334985

CATALOG NUMBER: S125IP-S365U930-4F0-1E-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	1.7	2.3	2.9	3.2	3.7	4.0	4.6	4.9
92.5°	4.3	5.2	8.1	12.4	18.4	28.8	48.4	81.3	117.0	115.0	92.8
95°	9.5	9.8	12.1	15.3	21.6	34.6	65.4	128.8	208.3	255.3	249.8
97.5°	14.7	15.0	16.7	19.9	25.6	35.2	56.5	105.2	191.0	275.7	312.1
100°	20.2	20.7	21.9	25.1	30.5	39.2	55.9	93.4	166.0	260.2	332.2
102.5°	26.2	26.5	27.4	30.8	35.7	44.1	58.5	88.5	147.0	232.8	320.1
105°	32.6	32.6	34.0	36.9	41.5	49.6	62.2	87.9	136.0	208.9	291.6
107.5°	38.6	39.2	40.6	42.9	47.8	55.0	67.4	89.9	130.2	191.0	264.5
110°	45.2	45.8	47.0	49.6	53.9	61.4	73.2	93.1	127.9	179.2	242.0



TEST NUMBER: P334985

CATALOG NUMBER: S125IP-S365U930-4F0-1E-UDD-4

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	51.9	52.4	53.3	55.9	60.2	67.4	78.7	97.1	127.9	172.3	225.3
115°	58.2	58.8	59.6	62.2	66.6	73.8	84.4	101.1	128.8	167.7	214.1
117.5°	64.0	64.8	65.7	68.3	73.2	80.1	90.2	105.7	130.2	165.1	206.6
120°	69.7	70.6	71.7	74.3	79.2	86.4	96.5	110.4	132.5	163.4	200.5
122.5°	75.8	76.4	77.2	79.8	85.3	92.5	102.6	115.5	134.6	161.9	195.4
125°	80.7	81.3	82.7	85.3	90.8	98.3	107.8	120.2	136.9	160.8	190.7
127.5°	84.7	85.6	87.3	90.5	96.2	103.7	113.0	124.5	139.5	160.2	186.4
130°	88.5	89.3	91.6	95.4	101.4	108.9	117.8	128.8	141.8	159.6	182.1
132.5°	91.3	92.5	95.4	99.7	106.0	113.5	122.5	132.5	144.4	159.6	178.6
135°	94.5	95.7	99.1	103.7	109.8	117.6	126.5	136.0	146.7	159.6	176.1
137.5°	98.5	99.4	102.6	107.2	113.2	121.3	129.4	138.6	149.0	159.9	173.5
140°	102.0	102.9	106.3	110.9	116.4	124.2	132.5	141.2	150.4	160.2	171.7
142.5°	106.0	106.6	109.8	114.4	119.6	126.8	134.6	142.6	151.3	160.5	170.3
145°	110.1	110.6	113.5	117.6	122.7	129.4	136.9	144.1	151.8	160.2	168.8
147.5°	114.4	114.7	117.3	121.0	125.6	131.7	138.3	144.9	152.1	159.6	167.4
150°	118.1	118.7	120.7	124.5	128.5	133.4	139.7	145.8	152.1	158.8	165.7
152.5°	122.2	122.5	124.2	127.4	131.1	135.4	141.2	146.4	151.8	157.6	163.7
155°	125.6	125.6	127.4	130.2	133.1	137.2	142.1	146.7	151.3	156.2	161.4
157.5°	128.8	128.8	130.2	132.8	135.4	138.6	142.9	147.0	150.7	154.7	159.3
160°	132.0	131.7	132.8	134.8	137.2	139.7	143.5	147.0	149.8	153.3	156.7
162.5°	134.6	134.3	135.4	137.2	138.9	140.9	144.1	146.7	149.0	151.6	154.4
165°	137.2	136.6	137.4	138.9	140.0	141.8	144.1	146.4	148.1	149.8	152.1
167.5°	138.9	138.6	139.2	140.0	140.9	142.1	144.1	145.8	146.7	148.1	149.8
170°	140.6	140.3	140.6	141.2	141.8	142.6	144.1	145.2	145.8	146.7	147.8
172.5°	141.8	141.2	141.5	142.1	142.3	142.6	143.8	144.6	144.6	144.9	145.8
175°	142.6	142.1	142.3	142.6	142.6	142.6	143.5	144.1	143.8	143.8	144.1
177.5°	143.2	142.6	142.6	142.9	142.6	142.6	143.2	143.5	142.9	142.9	143.2
180°	142.9	142.9	142.9	142.9	142.9	142.9	142.9	142.9	142.9	142.9	142.9



TEST NUMBER: P334985

CATALOG NUMBER: S125IP-S365U930-4F0-1E-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°	5.2	5.5	5.8	6.3	6.3	6.3	6.6	6.6
92.5°	62.5	44.9	33.4	27.9	23.3	22.5	21.9	21.3
95°	207.2	163.4	127.9	103.7	83.3	74.6	72.3	67.7
97.5°	297.1	262.2	226.5	191.9	174.6	159.6	151.8	148.4
100°	354.4	340.3	310.6	280.6	260.8	240.0	229.4	224.7
102.5°	373.7	388.1	377.7	359.9	338.3	325.0	313.2	310.0
105°	360.7	400.2	412.9	409.7	400.5	391.0	385.2	381.8
107.5°	334.2	386.4	416.9	429.6	432.2	430.8	427.9	425.0
110°	304.3	359.0	399.6	424.1	437.1	442.6	444.6	444.6



TEST NUMBER: P334985

CATALOG NUMBER: S125IP-S365U930-4F0-1E-UDD-4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	280.6	331.9	373.1	403.1	423.6	433.9	439.7	442.3
115°	261.6	306.3	345.8	377.2	399.6	413.5	421.5	425.3
117.5°	248.4	287.9	322.4	352.1	374.9	389.3	397.3	399.6
120°	238.0	272.6	304.3	329.6	351.0	364.8	372.6	374.9
122.5°	230.2	261.6	289.0	312.3	330.8	343.2	351.0	353.0
125°	222.7	252.1	277.2	297.9	314.1	325.9	332.2	335.1
127.5°	215.0	242.9	266.5	286.1	300.8	311.5	317.5	318.7
130°	207.7	233.1	255.6	274.3	288.7	298.2	304.0	305.7
132.5°	200.5	223.9	243.8	261.6	276.0	285.5	290.7	292.7
135°	194.5	214.4	232.8	249.2	261.9	271.4	276.6	278.3
137.5°	189.0	205.7	221.6	236.0	247.5	256.4	261.3	263.4
140°	184.7	198.2	211.5	223.6	234.3	241.7	246.1	247.5
142.5°	181.0	191.9	202.8	212.9	221.6	227.6	231.7	232.8
145°	177.8	186.7	195.6	203.4	210.3	215.2	218.4	219.6
147.5°	174.6	182.1	189.3	195.4	201.1	205.2	207.2	207.7
150°	172.0	178.4	183.8	189.0	193.3	196.8	198.0	198.2
152.5°	169.1	174.6	179.5	183.3	186.7	189.3	190.5	190.7
155°	166.3	170.9	174.9	178.1	181.0	183.0	183.8	184.1
157.5°	163.4	167.4	170.6	173.2	175.5	177.2	178.1	178.1
160°	160.5	163.4	166.3	168.3	170.3	171.7	172.3	172.0
162.5°	157.3	159.9	162.2	164.0	165.4	166.5	166.5	166.5
165°	154.4	156.5	158.2	159.6	160.8	161.4	161.4	161.4
167.5°	151.6	153.0	154.4	155.6	156.2	156.7	156.5	156.5
170°	149.3	150.1	151.0	151.6	152.1	152.4	152.4	152.1
172.5°	146.7	147.5	148.1	148.4	148.4	149.0	148.4	148.1
175°	144.9	144.9	145.5	145.5	145.5	145.8	145.2	144.9
177.5°	143.5	143.8	143.8	143.8	143.5	143.8	142.9	142.9
180°	142.9	142.9	142.9	142.9	142.9	142.9	142.9	142.9

(END OF REPORT)