

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: P334975

Luminaire Tested: **S125IP-S365U840-4F0-1E-UDD-4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P334975  
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-S365U840-4F0-1E-UDD-4  
Description: DEFINE 5 INDIRECT LED LUMINAIRE, BATWING OPTIC  
PENDANT MOUNT, 365 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1330.3 lumens  
Efficiency: N/A  
Efficacy: 116.7 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')  
CIE Type: Indirect

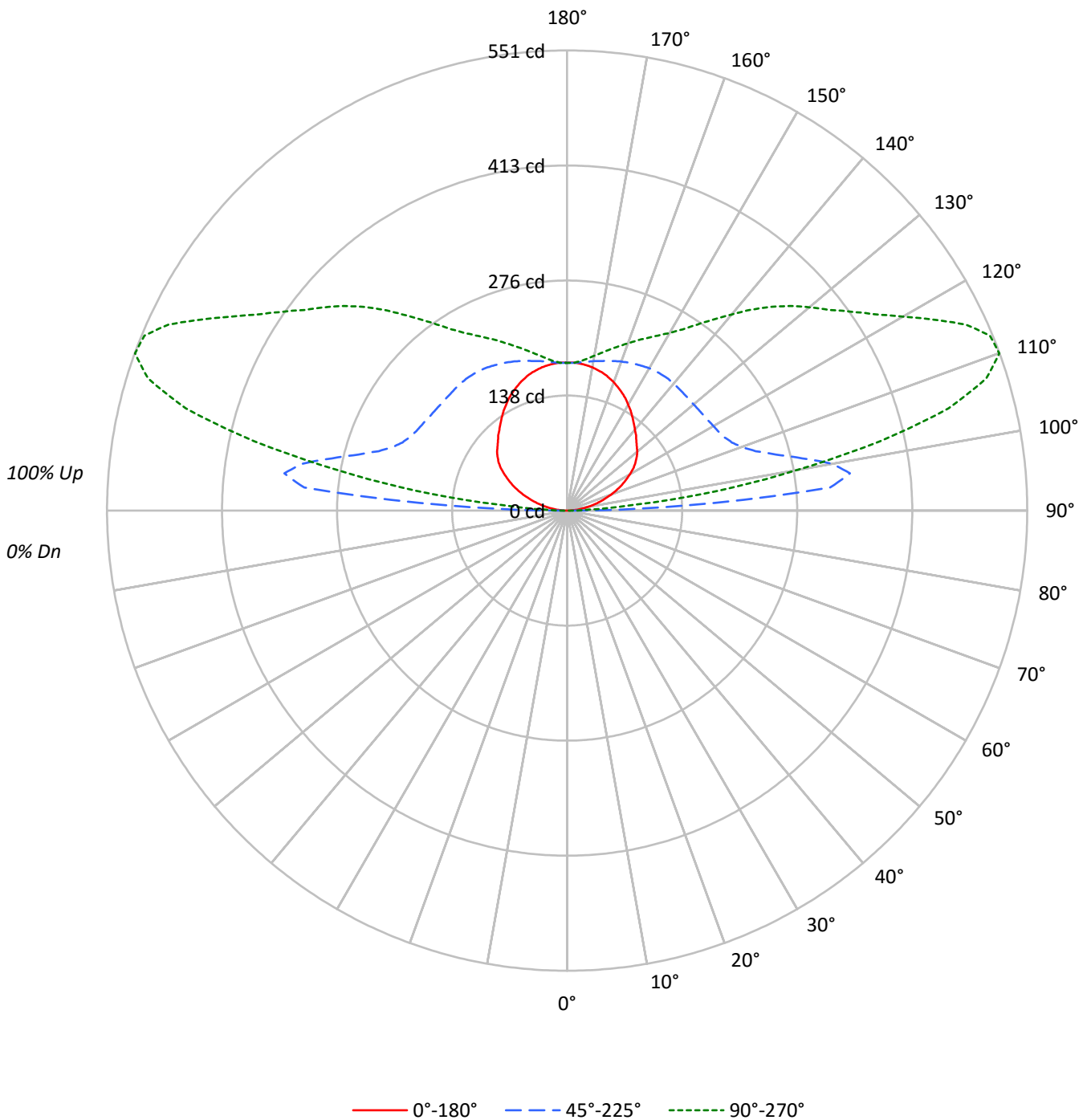
Input Watts (W): 11.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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



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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°	0.7	0.1
90°-100°	128.8	9.7
100°-110°	277.7	20.9
110°-120°	258.9	19.5
120°-130°	209.7	15.8
130°-140°	168.4	12.7
140°-150°	127.0	9.5
150°-160°	89.4	6.7
160°-170°	52.7	4.0
170°-180°	17.1	1.3
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	0.7	0.1
90°-120°	665.3	50.0
90°-150°	1170.3	88.0
90°-180°	1330.0	100.0
0°-180°	1330.3	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	6	8	8	1
95°	12	35	316	144	84	12
105°	40	56	259	509	473	42
115°	72	87	208	448	527	71
125°	100	117	199	356	415	89
135°	117	141	198	299	345	91
145°	136	156	198	247	272	85
155°	156	167	193	219	228	72
165°	170	175	186	197	200	48
175°	177	177	178	180	180	17
180°	177	177	177	177	177	



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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°	0.4	0.7	1.4	2.1	2.9	3.6	3.9	4.6	5.0	5.7	6.1
92.5°	5.4	6.4	10.0	15.3	22.8	35.7	60.0	100.6	144.9	142.4	114.9
95°	11.8	12.1	15.0	18.9	26.8	42.8	81.0	159.5	258.0	316.2	309.4
97.5°	18.2	18.6	20.7	24.6	31.8	43.5	70.0	130.3	236.6	341.6	386.5
100°	25.0	25.7	27.1	31.1	37.8	48.5	69.2	115.6	205.6	322.3	411.5
102.5°	32.5	32.8	33.9	38.2	44.3	54.6	72.5	109.6	182.0	288.4	396.5
105°	40.3	40.3	42.1	45.7	51.4	61.4	77.1	108.9	168.5	258.8	361.2
107.5°	47.8	48.5	50.3	53.2	59.2	68.2	83.5	111.4	161.3	236.6	327.6
110°	56.0	56.7	58.2	61.4	66.7	76.0	90.7	115.3	158.5	222.0	299.8



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	64.2	65.0	66.0	69.2	74.6	83.5	97.4	120.3	158.5	213.4	279.1
115°	72.1	72.8	73.9	77.1	82.4	91.4	104.6	125.3	159.5	207.7	265.2
117.5°	79.2	80.3	81.4	84.6	90.7	99.2	111.7	131.0	161.3	204.5	255.9
120°	86.4	87.4	88.9	92.1	98.1	107.1	119.6	136.7	164.2	202.4	248.4
122.5°	93.9	94.6	95.6	98.9	105.6	114.6	127.1	143.1	166.7	200.6	242.0
125°	99.9	100.6	102.4	105.6	112.4	121.7	133.5	148.8	169.5	199.2	236.3
127.5°	104.9	106.0	108.1	112.1	119.2	128.5	139.9	154.2	172.7	198.4	230.9
130°	109.6	110.6	113.5	118.1	125.6	134.9	146.0	159.5	175.6	197.7	225.6
132.5°	113.1	114.6	118.1	123.5	131.3	140.6	151.7	164.2	178.8	197.7	221.3
135°	117.1	118.5	122.8	128.5	136.0	145.6	156.7	168.5	181.7	197.7	218.1
137.5°	122.1	123.1	127.1	132.8	140.3	150.3	160.2	171.7	184.5	198.1	214.9
140°	126.3	127.4	131.7	137.4	144.2	153.8	164.2	174.9	186.3	198.4	212.7
142.5°	131.3	132.1	136.0	141.7	148.1	157.0	166.7	176.7	187.4	198.8	210.9
145°	136.3	137.0	140.6	145.6	152.0	160.2	169.5	178.5	188.1	198.4	209.1
147.5°	141.7	142.0	145.3	149.9	155.6	163.1	171.3	179.5	188.4	197.7	207.4
150°	146.3	147.0	149.5	154.2	159.2	165.2	173.1	180.6	188.4	196.7	205.2
152.5°	151.3	151.7	153.8	157.8	162.4	167.7	174.9	181.3	188.1	195.2	202.7
155°	155.6	155.6	157.8	161.3	164.9	169.9	176.0	181.7	187.4	193.4	199.9
157.5°	159.5	159.5	161.3	164.5	167.7	171.7	177.0	182.0	186.7	191.7	197.4
160°	163.5	163.1	164.5	167.0	169.9	173.1	177.7	182.0	185.6	189.9	194.2
162.5°	166.7	166.3	167.7	169.9	172.0	174.5	178.5	181.7	184.5	187.7	191.3
165°	169.9	169.2	170.2	172.0	173.5	175.6	178.5	181.3	183.4	185.6	188.4
167.5°	172.0	171.7	172.4	173.5	174.5	176.0	178.5	180.6	181.7	183.4	185.6
170°	174.2	173.8	174.2	174.9	175.6	176.7	178.5	179.9	180.6	181.7	183.1
172.5°	175.6	174.9	175.2	176.0	176.3	176.7	178.1	179.2	179.2	179.5	180.6
175°	176.7	176.0	176.3	176.7	176.7	176.7	177.7	178.5	178.1	178.1	178.5
177.5°	177.4	176.7	176.7	177.0	176.7	176.7	177.4	177.7	177.0	177.0	177.4
180°	177.0	177.0	177.0	177.0	177.0	177.0	177.0	177.0	177.0	177.0	177.0



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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°	6.4	6.8	7.1	7.9	7.9	7.9	8.2	8.2
92.5°	77.4	55.7	41.4	34.6	28.9	27.8	27.1	26.4
95°	256.6	202.4	158.5	128.5	103.1	92.4	89.6	83.9
97.5°	368.0	324.8	280.5	237.7	216.3	197.7	188.1	183.8
100°	439.0	421.5	384.7	347.6	323.0	297.3	284.1	278.4
102.5°	462.9	480.7	467.9	445.8	419.0	402.6	388.0	384.0
105°	446.8	495.7	511.4	507.5	496.1	484.3	477.2	472.9
107.5°	414.0	478.6	516.4	532.1	535.4	533.6	530.0	526.4
110°	376.9	444.7	495.0	525.4	541.4	548.2	550.7	550.7





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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	347.6	411.1	462.2	499.3	524.6	537.5	544.6	547.8
115°	324.1	379.4	428.3	467.2	495.0	512.2	522.1	526.8
117.5°	307.6	356.5	399.4	436.1	464.3	482.2	492.2	495.0
120°	294.8	337.6	376.9	408.3	434.7	451.8	461.5	464.3
122.5°	285.2	324.1	358.0	386.9	409.7	425.1	434.7	437.2
125°	275.9	312.3	343.3	369.0	389.0	403.7	411.5	415.1
127.5°	266.2	300.9	330.1	354.4	372.6	385.8	393.3	394.7
130°	257.3	288.7	316.6	339.8	357.6	369.4	376.5	378.7
132.5°	248.4	277.3	301.9	324.1	341.9	353.7	360.1	362.6
135°	240.9	265.5	288.4	308.7	324.4	336.2	342.6	344.8
137.5°	234.1	254.8	274.5	292.3	306.6	317.6	323.7	326.2
140°	228.8	245.5	262.0	277.0	290.2	299.4	304.8	306.6
142.5°	224.1	237.7	251.3	263.7	274.5	282.0	286.9	288.4
145°	220.2	231.3	242.3	252.0	260.5	266.6	270.5	272.0
147.5°	216.3	225.6	234.5	242.0	249.1	254.1	256.6	257.3
150°	213.1	220.9	227.7	234.1	239.5	243.8	245.2	245.5
152.5°	209.5	216.3	222.3	227.0	231.3	234.5	235.9	236.3
155°	205.9	211.6	216.6	220.6	224.1	226.6	227.7	228.1
157.5°	202.4	207.4	211.3	214.5	217.4	219.5	220.6	220.6
160°	198.8	202.4	205.9	208.4	210.9	212.7	213.4	213.1
162.5°	194.9	198.1	200.9	203.1	204.9	206.3	206.3	206.3
165°	191.3	193.8	195.9	197.7	199.2	199.9	199.9	199.9
167.5°	187.7	189.5	191.3	192.7	193.4	194.2	193.8	193.8
170°	184.9	185.9	187.0	187.7	188.4	188.8	188.8	188.4
172.5°	181.7	182.7	183.4	183.8	183.8	184.5	183.8	183.4
175°	179.5	179.5	180.2	180.2	180.2	180.6	179.9	179.5
177.5°	177.7	178.1	178.1	178.1	177.7	178.1	177.0	177.0
180°	177.0	177.0	177.0	177.0	177.0	177.0	177.0	177.0

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