

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: P334980

Luminaire Tested: **S125IP-S365U927-4F0-1E-UDD-4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P334980  
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-S365U927-4F0-1E-UDD-4  
Description: DEFINE 5 INDIRECT LED LUMINAIRE, BATWING OPTIC  
PENDANT MOUNT, 365 LUMENS PER FOOT  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

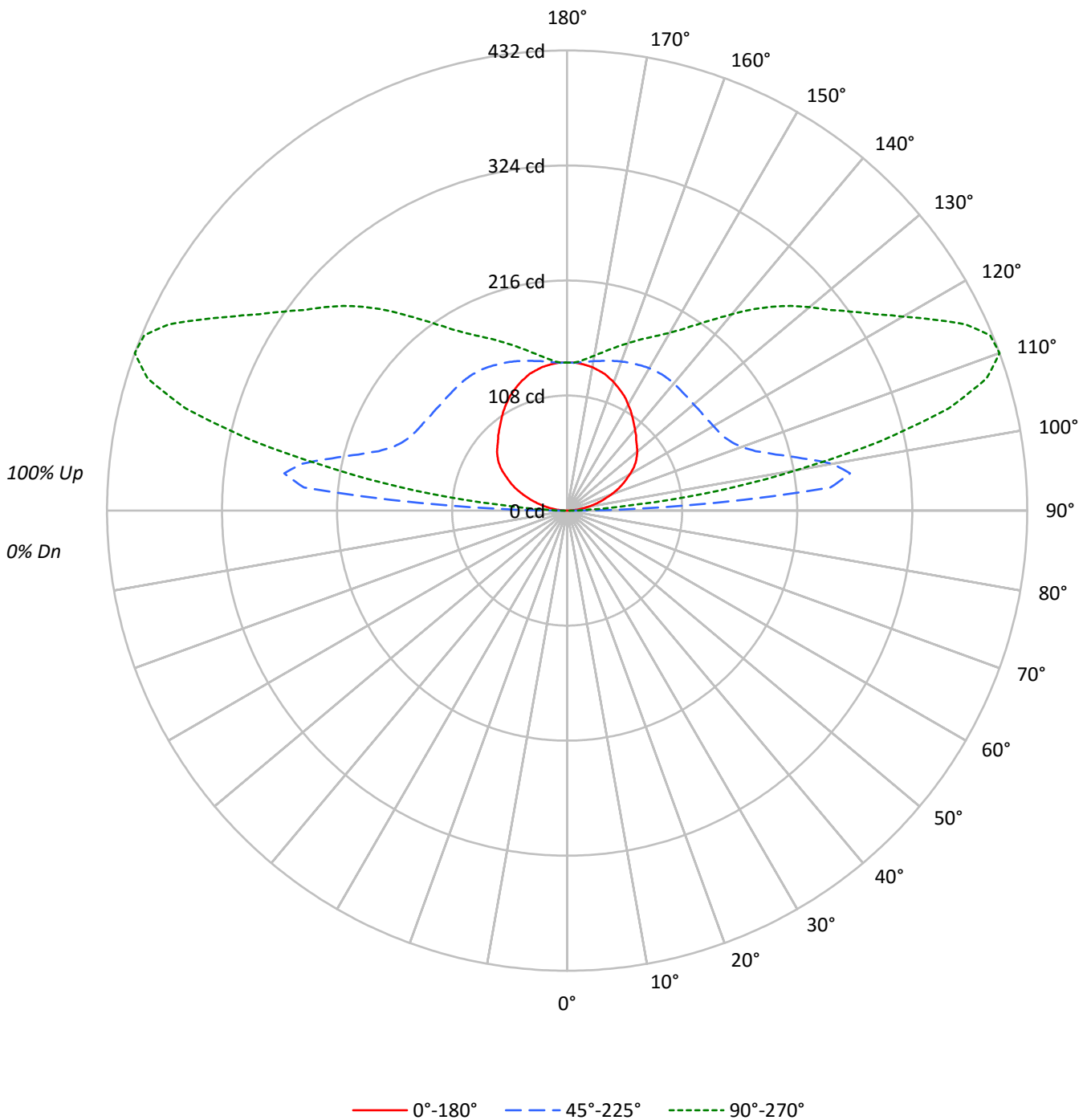
Lumens per Lamp: N/A  
Luminaire Lumens: 1043.6 lumens  
Efficiency: N/A  
Efficacy: 91.5 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')  
CIE Type: Indirect

Input Watts (W): 11.4  
Input Voltage (V): 120  
Input Current (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°	0.6	0.1
90°-100°	101.0	9.7
100°-110°	217.8	20.9
110°-120°	203.1	19.5
120°-130°	164.5	15.8
130°-140°	132.1	12.7
140°-150°	99.6	9.5
150°-160°	70.1	6.7
160°-170°	41.3	4.0
170°-180°	13.4	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°	521.9	50.0
90°-150°	918.1	88.0
90°-180°	1043.0	99.9
0°-180°	1043.6	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	2	4	6	6	1
95°	9	27	248	113	66	10
105°	32	44	203	400	371	33
115°	57	68	163	351	413	56
125°	78	92	156	279	326	70
135°	92	110	155	234	270	71
145°	107	122	156	194	213	67
155°	122	131	152	171	179	56
165°	133	137	146	154	157	38
175°	139	139	140	141	141	13
180°	139	139	139	139	139	



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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°	0.3	0.6	1.1	1.7	2.2	2.8	3.1	3.6	3.9	4.5	4.8
92.5°	4.2	5.0	7.8	12.0	17.9	28.0	47.0	79.0	113.7	111.7	90.1
95°	9.2	9.5	11.8	14.8	21.0	33.6	63.6	125.1	202.4	248.1	242.7
97.5°	14.3	14.6	16.2	19.3	24.9	34.2	54.9	102.2	185.6	267.9	303.2
100°	19.6	20.2	21.3	24.4	29.7	38.1	54.3	90.7	161.3	252.8	322.8
102.5°	25.5	25.8	26.6	30.0	34.7	42.8	56.8	86.0	142.8	226.2	311.0
105°	31.6	31.6	33.0	35.8	40.3	48.2	60.5	85.4	132.1	203.0	283.3
107.5°	37.5	38.1	39.5	41.7	46.5	53.5	65.5	87.4	126.5	185.6	257.0
110°	44.0	44.5	45.6	48.2	52.4	59.6	71.1	90.4	124.3	174.1	235.2



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	50.4	51.0	51.8	54.3	58.5	65.5	76.4	94.3	124.3	167.4	218.9
115°	56.6	57.1	58.0	60.5	64.7	71.7	82.0	98.3	125.1	162.9	208.0
117.5°	62.2	63.0	63.8	66.4	71.1	77.8	87.6	102.7	126.5	160.4	200.7
120°	67.8	68.6	69.7	72.2	77.0	84.0	93.8	107.2	128.8	158.7	194.9
122.5°	73.6	74.2	75.0	77.6	82.9	89.9	99.7	112.3	130.7	157.3	189.8
125°	78.4	79.0	80.4	82.9	88.2	95.5	104.7	116.7	133.0	156.2	185.3
127.5°	82.3	83.2	84.8	87.9	93.5	100.8	109.7	120.9	135.5	155.7	181.1
130°	86.0	86.8	89.0	92.7	98.5	105.8	114.5	125.1	137.7	155.1	176.9
132.5°	88.8	89.9	92.7	96.9	103.0	110.3	119.0	128.8	140.3	155.1	173.6
135°	91.8	92.9	96.3	100.8	106.7	114.2	122.9	132.1	142.5	155.1	171.1
137.5°	95.7	96.6	99.7	104.1	110.0	117.9	125.7	134.7	144.7	155.4	168.5
140°	99.1	99.9	103.3	107.8	113.1	120.7	128.8	137.2	146.1	155.7	166.9
142.5°	103.0	103.6	106.7	111.1	116.2	123.2	130.7	138.6	147.0	155.9	165.5
145°	106.9	107.5	110.3	114.2	119.3	125.7	133.0	140.0	147.5	155.7	164.1
147.5°	111.1	111.4	113.9	117.6	122.1	127.9	134.4	140.8	147.8	155.1	162.7
150°	114.8	115.3	117.3	120.9	124.9	129.6	135.8	141.7	147.8	154.3	161.0
152.5°	118.7	119.0	120.7	123.7	127.4	131.6	137.2	142.2	147.5	153.1	159.0
155°	122.1	122.1	123.7	126.5	129.3	133.3	138.0	142.5	147.0	151.7	156.8
157.5°	125.1	125.1	126.5	129.1	131.6	134.7	138.9	142.8	146.4	150.3	154.8
160°	128.2	127.9	129.1	131.0	133.3	135.8	139.4	142.8	145.6	148.9	152.3
162.5°	130.7	130.5	131.6	133.3	134.9	136.9	140.0	142.5	144.7	147.3	150.1
165°	133.3	132.7	133.5	134.9	136.1	137.7	140.0	142.2	143.9	145.6	147.8
167.5°	134.9	134.7	135.2	136.1	136.9	138.0	140.0	141.7	142.5	143.9	145.6
170°	136.6	136.3	136.6	137.2	137.7	138.6	140.0	141.1	141.7	142.5	143.6
172.5°	137.7	137.2	137.5	138.0	138.3	138.6	139.7	140.5	140.5	140.8	141.7
175°	138.6	138.0	138.3	138.6	138.6	138.6	139.4	140.0	139.7	139.7	140.0
177.5°	139.1	138.6	138.6	138.9	138.6	138.6	139.1	139.4	138.9	138.9	139.1
180°	138.9	138.9	138.9	138.9	138.9	138.9	138.9	138.9	138.9	138.9	138.9



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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°	5.0	5.3	5.6	6.2	6.2	6.2	6.4	6.4
92.5°	60.8	43.7	32.5	27.2	22.7	21.8	21.3	20.7
95°	201.3	158.7	124.3	100.8	80.9	72.5	70.3	65.8
97.5°	288.6	254.8	220.1	186.5	169.7	155.1	147.5	144.2
100°	344.4	330.6	301.8	272.7	253.4	233.2	222.9	218.4
102.5°	363.1	377.1	367.0	349.7	328.7	315.8	304.3	301.2
105°	350.5	388.9	401.2	398.1	389.2	379.9	374.3	371.0
107.5°	324.8	375.4	405.1	417.4	420.0	418.6	415.8	413.0
110°	295.6	348.8	388.3	412.1	424.7	430.0	432.0	432.0





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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	272.7	322.5	362.6	391.7	411.6	421.6	427.2	429.8
115°	254.2	297.6	336.0	366.5	388.3	401.8	409.6	413.2
117.5°	241.3	279.7	313.3	342.1	364.2	378.2	386.1	388.3
120°	231.3	264.9	295.6	320.3	341.0	354.4	362.0	364.2
122.5°	223.7	254.2	280.8	303.5	321.4	333.4	341.0	343.0
125°	216.4	245.0	269.3	289.5	305.2	316.6	322.8	325.6
127.5°	208.9	236.0	259.0	278.0	292.3	302.6	308.5	309.6
130°	201.9	226.5	248.3	266.5	280.5	289.8	295.4	297.0
132.5°	194.9	217.5	236.9	254.2	268.2	277.4	282.5	284.4
135°	189.0	208.3	226.2	242.2	254.5	263.7	268.8	270.4
137.5°	183.7	199.9	215.3	229.3	240.5	249.2	253.9	255.9
140°	179.5	192.6	205.5	217.3	227.6	234.9	239.1	240.5
142.5°	175.8	186.5	197.1	206.9	215.3	221.2	225.1	226.2
145°	172.7	181.4	190.1	197.7	204.4	209.1	212.2	213.3
147.5°	169.7	176.9	183.9	189.8	195.4	199.3	201.3	201.9
150°	167.1	173.3	178.6	183.7	187.9	191.2	192.3	192.6
152.5°	164.3	169.7	174.4	178.1	181.4	183.9	185.1	185.3
155°	161.5	166.0	169.9	173.0	175.8	177.8	178.6	178.9
157.5°	158.7	162.7	165.7	168.3	170.5	172.2	173.0	173.0
160°	155.9	158.7	161.5	163.5	165.5	166.9	167.4	167.1
162.5°	152.9	155.4	157.6	159.3	160.7	161.8	161.8	161.8
165°	150.1	152.0	153.7	155.1	156.2	156.8	156.8	156.8
167.5°	147.3	148.7	150.1	151.2	151.7	152.3	152.0	152.0
170°	145.0	145.9	146.7	147.3	147.8	148.1	148.1	147.8
172.5°	142.5	143.3	143.9	144.2	144.2	144.7	144.2	143.9
175°	140.8	140.8	141.4	141.4	141.4	141.7	141.1	140.8
177.5°	139.4	139.7	139.7	139.7	139.4	139.7	138.9	138.9
180°	138.9	138.9	138.9	138.9	138.9	138.9	138.9	138.9

(END OF REPORT)