

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: P334984

Luminaire Tested: **S125IP-S1205U927-4F0-1E-UDD-4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P334984  
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-S1205U927-4F0-1E-UDD-4  
Description: DEFINE 5 INDIRECT LED LUMINAIRE, BATWING OPTIC  
PENDANT MOUNT, 1205 LUMENS PER FOOT  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3431.0 lumens  
Efficiency: N/A  
Efficacy: 81.9 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')  
CIE Type: Indirect

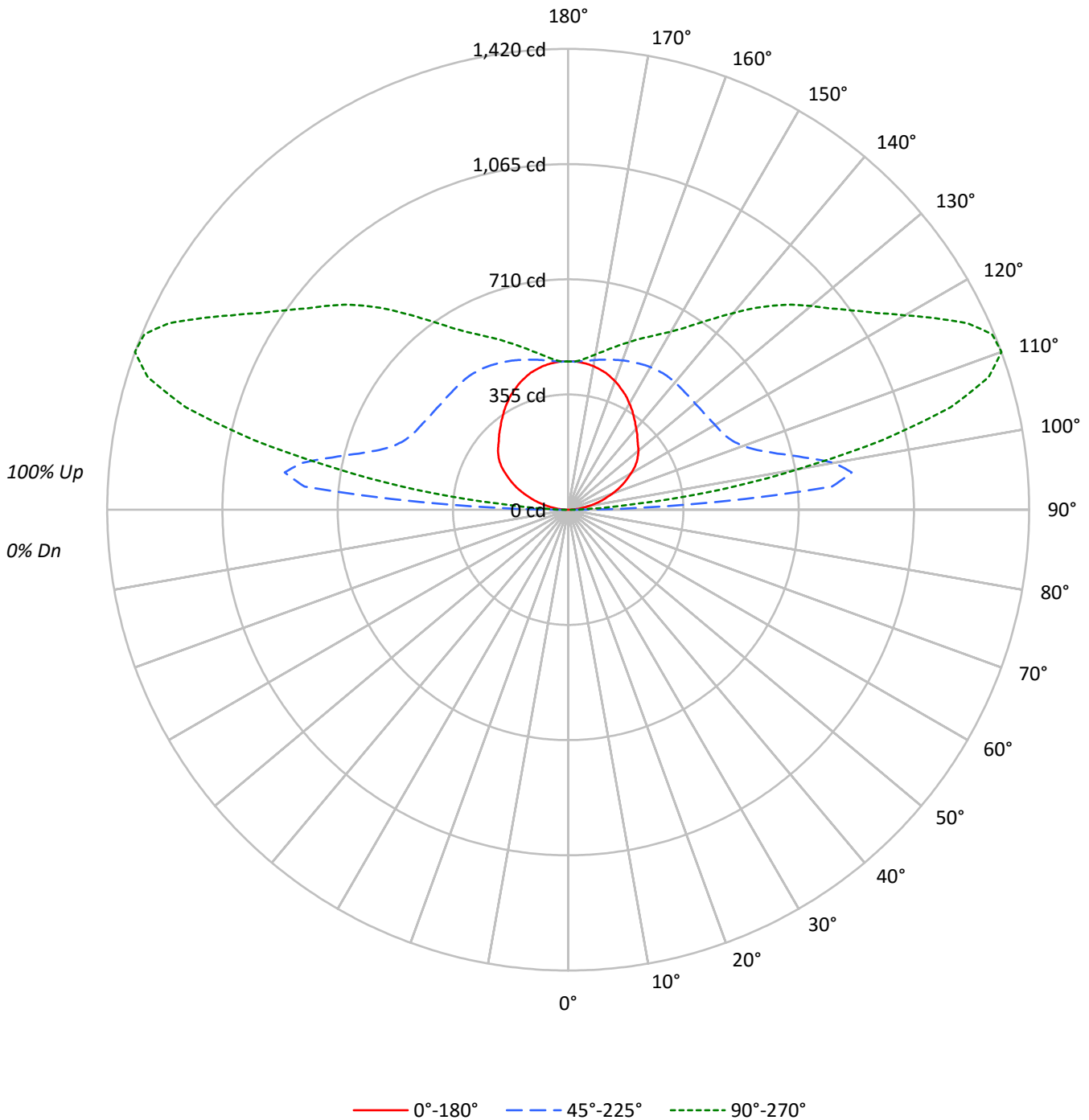
Input Watts (W): 41.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1.8	0.1
90°-100°	332.1	9.7
100°-110°	716.2	20.9
110°-120°	667.7	19.5
120°-130°	540.8	15.8
130°-140°	434.2	12.7
140°-150°	327.5	9.5
150°-160°	230.6	6.7
160°-170°	135.9	4.0
170°-180°	44.2	1.3
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.8	0.1
90°-120°	1715.9	50.0
90°-150°	3018.4	88.0
90°-180°	3429.0	99.9
0°-180°	3431.0	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	8	15	19	21	2
95°	30	90	816	370	216	32
105°	104	145	667	1314	1220	110
115°	186	224	536	1155	1359	183
125°	258	302	514	919	1070	229
135°	302	363	510	770	889	234
145°	352	403	512	637	701	220
155°	401	432	499	564	588	185
165°	438	450	479	508	516	123
175°	456	456	459	465	463	43
180°	457	457	457	457	457	



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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°	0.9	1.8	3.7	5.5	7.4	9.2	10.1	12.0	12.9	14.7	15.6
92.5°	13.8	16.6	25.8	39.6	58.9	92.0	154.6	259.6	373.7	367.3	296.4
95°	30.4	31.3	38.7	48.8	69.0	110.5	208.9	411.5	665.5	815.5	798.1
97.5°	46.9	47.9	53.4	63.5	81.9	112.3	180.4	336.0	610.3	880.9	996.9
100°	64.4	66.3	70.0	80.1	97.6	125.2	178.6	298.2	530.2	831.2	1061.3
102.5°	83.8	84.7	87.4	98.5	114.1	140.8	186.9	282.6	469.4	743.7	1022.7
105°	104.0	104.0	108.6	117.8	132.5	158.3	198.8	280.7	434.5	667.3	931.5
107.5°	123.3	125.2	129.8	137.2	152.8	175.8	215.4	287.2	416.1	610.3	845.0
110°	144.5	146.4	150.0	158.3	172.1	196.1	233.8	297.3	408.7	572.5	773.2



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	165.7	167.5	170.3	178.6	192.4	215.4	251.3	310.2	408.7	550.4	719.8
115°	185.9	187.8	190.5	198.8	212.6	235.6	269.7	323.1	411.5	535.7	683.9
117.5°	204.3	207.1	209.9	218.2	233.8	255.9	288.1	337.8	416.1	527.4	660.0
120°	222.8	225.5	229.2	237.5	253.1	276.1	308.4	352.5	423.4	521.9	640.7
122.5°	242.1	243.9	246.7	255.0	272.5	295.5	327.7	369.1	429.9	517.3	624.1
125°	257.7	259.6	264.2	272.5	290.0	313.9	344.3	383.8	437.2	513.6	609.4
127.5°	270.6	273.4	278.9	289.0	307.4	331.4	360.8	397.6	445.5	511.8	595.6
130°	282.6	285.3	292.7	304.7	324.0	347.9	376.5	411.5	452.9	509.9	581.7
132.5°	291.8	295.5	304.7	318.5	338.7	362.7	391.2	423.4	461.2	509.9	570.7
135°	301.9	305.6	316.6	331.4	350.7	375.6	404.1	434.5	468.5	509.9	562.4
137.5°	314.8	317.6	327.7	342.4	361.7	387.5	413.3	442.8	475.9	510.9	554.1
140°	325.9	328.6	339.7	354.4	371.9	396.7	423.4	451.0	480.5	511.8	548.6
142.5°	338.7	340.6	350.7	365.4	382.0	405.0	429.9	455.6	483.3	512.7	544.0
145°	351.6	353.5	362.7	375.6	392.1	413.3	437.2	460.2	485.1	511.8	539.4
147.5°	365.4	366.4	374.6	386.6	401.3	420.7	441.8	463.0	486.0	509.9	534.8
150°	377.4	379.2	385.7	397.6	410.5	426.2	446.4	465.8	486.0	507.2	529.3
152.5°	390.3	391.2	396.7	406.9	418.8	432.6	451.0	467.6	485.1	503.5	522.8
155°	401.3	401.3	406.9	416.1	425.3	438.1	453.8	468.5	483.3	498.9	515.5
157.5°	411.5	411.5	416.1	424.3	432.6	442.8	456.6	469.4	481.4	494.3	509.0
160°	421.6	420.7	424.3	430.8	438.1	446.4	458.4	469.4	478.7	489.7	500.7
162.5°	429.9	428.9	432.6	438.1	443.7	450.1	460.2	468.5	475.9	484.2	493.4
165°	438.1	436.3	439.1	443.7	447.4	452.9	460.2	467.6	473.1	478.7	486.0
167.5°	443.7	442.8	444.6	447.4	450.1	453.8	460.2	465.8	468.5	473.1	478.7
170°	449.2	448.3	449.2	451.0	452.9	455.6	460.2	463.9	465.8	468.5	472.2
172.5°	452.9	451.0	452.0	453.8	454.7	455.6	459.3	462.1	462.1	463.0	465.8
175°	455.6	453.8	454.7	455.6	455.6	455.6	458.4	460.2	459.3	459.3	460.2
177.5°	457.5	455.6	455.6	456.6	455.6	455.6	457.5	458.4	456.6	456.6	457.5
180°	456.6	456.6	456.6	456.6	456.6	456.6	456.6	456.6	456.6	456.6	456.6



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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°	16.6	17.5	18.4	20.3	20.3	20.3	21.2	21.2
92.5°	199.7	143.6	106.8	89.3	74.6	71.8	70.0	68.1
95°	661.8	521.9	408.7	331.4	266.0	238.4	231.0	216.3
97.5°	949.0	837.6	723.5	613.0	557.8	509.9	485.1	474.0
100°	1132.2	1087.1	992.3	896.5	833.0	766.8	732.7	718.0
102.5°	1193.9	1239.9	1206.8	1149.7	1080.6	1038.3	1000.6	990.4
105°	1152.4	1278.5	1319.1	1308.9	1279.5	1249.1	1230.7	1219.6
107.5°	1067.8	1234.4	1331.9	1372.4	1380.7	1376.1	1366.9	1357.7
110°	972.0	1146.9	1276.7	1354.9	1396.4	1413.9	1420.3	1420.3





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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	896.5	1060.4	1192.0	1287.8	1353.1	1386.2	1404.7	1412.9
115°	835.8	978.5	1104.6	1204.9	1276.7	1320.9	1346.7	1358.6
117.5°	793.5	919.6	1030.0	1124.8	1197.5	1243.6	1269.3	1276.7
120°	760.3	870.8	972.0	1053.0	1121.1	1165.3	1190.2	1197.5
122.5°	735.5	835.8	923.2	997.8	1056.7	1096.3	1121.1	1127.6
125°	711.5	805.4	885.5	951.8	1003.3	1041.1	1061.3	1070.5
127.5°	686.7	776.0	851.4	914.0	961.0	995.0	1014.4	1018.1
130°	663.7	744.7	816.5	876.3	922.3	952.7	971.1	976.6
132.5°	640.7	715.2	778.7	835.8	881.8	912.2	928.8	935.2
135°	621.3	684.8	743.7	796.2	836.7	867.1	883.7	889.2
137.5°	603.8	657.2	707.9	753.9	790.7	819.2	834.9	841.3
140°	590.0	633.3	675.6	714.3	748.4	772.3	786.1	790.7
142.5°	578.1	613.0	648.0	680.2	707.9	727.2	740.1	743.7
145°	567.9	596.5	625.0	649.9	672.0	687.6	697.7	701.4
147.5°	557.8	581.7	604.8	624.1	642.5	655.4	661.8	663.7
150°	549.5	569.8	587.3	603.8	617.6	628.7	632.4	633.3
152.5°	540.3	557.8	573.5	585.4	596.5	604.8	608.4	609.4
155°	531.1	545.8	558.7	568.9	578.1	584.5	587.3	588.2
157.5°	521.9	534.8	544.9	553.2	560.6	566.1	568.9	568.9
160°	512.7	521.9	531.1	537.6	544.0	548.6	550.4	549.5
162.5°	502.6	510.9	518.2	523.8	528.4	532.0	532.0	532.0
165°	493.4	499.8	505.3	509.9	513.6	515.5	515.5	515.5
167.5°	484.2	488.8	493.4	497.1	498.9	500.7	499.8	499.8
170°	476.8	479.6	482.3	484.2	486.0	486.9	486.9	486.0
172.5°	468.5	471.3	473.1	474.0	474.0	475.9	474.0	473.1
175°	463.0	463.0	464.8	464.8	464.8	465.8	463.9	463.0
177.5°	458.4	459.3	459.3	459.3	458.4	459.3	456.6	456.6
180°	456.6	456.6	456.6	456.6	456.6	456.6	456.6	456.6

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