

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: P334999

Luminaire Tested: **S125IP-S1205U940-4F0-1E-UDD-4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P334999  
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-S1205U940-4F0-1E-UDD-4  
Description: DEFINE 5 INDIRECT LED LUMINAIRE, BATWING OPTIC  
PENDANT MOUNT, 1205 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3862.1 lumens  
Efficiency: N/A  
Efficacy: 92.2 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')  
CIE Type: Indirect

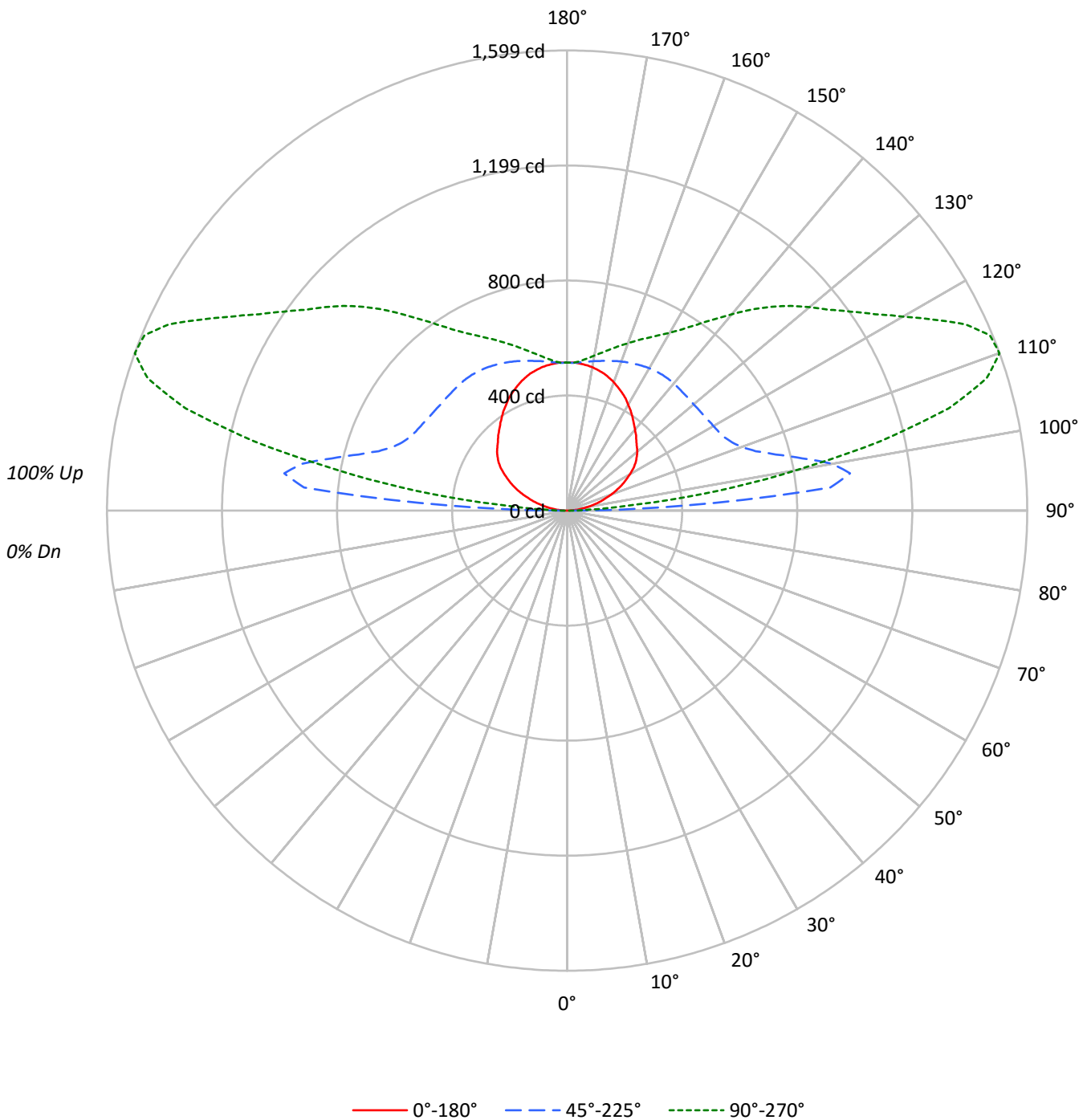
Input Watts (W): 41.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2.0	0.1
90°-100°	373.8	9.7
100°-110°	806.1	20.9
110°-120°	751.6	19.5
120°-130°	608.7	15.8
130°-140°	488.8	12.7
140°-150°	368.7	9.5
150°-160°	259.6	6.7
160°-170°	153.0	4.0
170°-180°	49.8	1.3
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.0	0.1
90°-120°	1931.5	50.0
90°-150°	3397.7	88.0
90°-180°	3860.0	99.9
0°-180°	3862.1	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	9	17	22	24	2
95°	34	101	918	416	244	36
105°	117	164	751	1479	1373	123
115°	209	252	603	1300	1529	206
125°	290	340	578	1034	1205	258
135°	340	409	574	867	1001	264
145°	396	453	576	718	790	248
155°	452	486	562	635	662	208
165°	493	507	539	571	580	139
175°	513	513	517	523	521	49
180°	514	514	514	514	514	



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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°	1.0	2.1	4.1	6.2	8.3	10.4	11.4	13.5	14.5	16.6	17.6
92.5°	15.5	18.7	29.0	44.6	66.3	103.6	174.1	292.2	420.7	413.4	333.6
95°	34.2	35.2	43.5	54.9	77.7	124.3	235.2	463.2	749.1	918.0	898.3
97.5°	52.8	53.9	60.1	71.5	92.2	126.4	203.1	378.2	687.0	991.6	1122.1
100°	72.5	74.6	78.7	90.1	109.8	140.9	201.0	335.7	596.8	935.6	1194.7
102.5°	94.3	95.3	98.4	110.9	128.5	158.5	210.3	318.1	528.4	837.2	1151.1
105°	117.1	117.1	122.3	132.6	149.2	178.2	223.8	316.0	489.1	751.2	1048.6
107.5°	138.8	140.9	146.1	154.4	172.0	197.9	242.5	323.3	468.3	687.0	951.2
110°	162.7	164.7	168.9	178.2	193.8	220.7	263.2	334.7	460.0	644.5	870.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	186.5	188.6	191.7	201.0	216.6	242.5	282.9	349.2	460.0	619.6	810.3
115°	209.3	211.4	214.5	223.8	239.3	265.2	303.6	363.7	463.2	603.0	769.8
117.5°	230.0	233.1	236.2	245.6	263.2	288.0	324.3	380.3	468.3	593.7	742.9
120°	250.7	253.9	258.0	267.3	284.9	310.8	347.1	396.8	476.6	587.5	721.1
122.5°	272.5	274.6	277.7	287.0	306.7	332.6	368.9	415.5	483.9	582.3	702.5
125°	290.1	292.2	297.4	306.7	326.4	353.3	387.5	432.1	492.2	578.2	685.9
127.5°	304.6	307.7	313.9	325.3	346.1	373.0	406.2	447.6	501.5	576.1	670.4
130°	318.1	321.2	329.5	343.0	364.7	391.7	423.8	463.2	509.8	574.0	654.8
132.5°	328.5	332.6	343.0	358.5	381.3	408.2	440.4	476.6	519.1	574.0	642.4
135°	339.9	344.0	356.4	373.0	394.8	422.7	454.9	489.1	527.4	574.0	633.1
137.5°	354.4	357.5	368.9	385.4	407.2	436.2	465.2	498.4	535.7	575.1	623.8
140°	366.8	369.9	382.3	398.9	418.6	446.6	476.6	507.7	540.9	576.1	617.5
142.5°	381.3	383.4	394.8	411.3	430.0	455.9	483.9	512.9	544.0	577.1	612.4
145°	395.8	397.9	408.2	422.7	441.4	465.2	492.2	518.1	546.0	576.1	607.2
147.5°	411.3	412.4	421.7	435.2	451.8	473.5	497.3	521.2	547.1	574.0	602.0
150°	424.8	426.9	434.1	447.6	462.1	479.7	502.5	524.3	547.1	570.9	595.8
152.5°	439.3	440.4	446.6	458.0	471.4	487.0	507.7	526.4	546.0	566.8	588.5
155°	451.8	451.8	458.0	468.3	478.7	493.2	510.8	527.4	544.0	561.6	580.2
157.5°	463.2	463.2	468.3	477.7	487.0	498.4	513.9	528.4	541.9	556.4	573.0
160°	474.5	473.5	477.7	484.9	493.2	502.5	516.0	528.4	538.8	551.2	563.7
162.5°	483.9	482.8	487.0	493.2	499.4	506.7	518.1	527.4	535.7	545.0	555.4
165°	493.2	491.1	494.2	499.4	503.6	509.8	518.1	526.4	532.6	538.8	547.1
167.5°	499.4	498.4	500.5	503.6	506.7	510.8	518.1	524.3	527.4	532.6	538.8
170°	505.6	504.6	505.6	507.7	509.8	512.9	518.1	522.2	524.3	527.4	531.5
172.5°	509.8	507.7	508.7	510.8	511.8	512.9	517.0	520.1	520.1	521.2	524.3
175°	512.9	510.8	511.8	512.9	512.9	512.9	516.0	518.1	517.0	517.0	518.1
177.5°	515.0	512.9	512.9	513.9	512.9	512.9	515.0	516.0	513.9	513.9	515.0
180°	513.9	513.9	513.9	513.9	513.9	513.9	513.9	513.9	513.9	513.9	513.9



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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°	18.7	19.7	20.7	22.8	22.8	22.8	23.8	23.8
92.5°	224.8	161.6	120.2	100.5	83.9	80.8	78.7	76.7
95°	745.0	587.5	460.0	373.0	299.4	268.4	260.1	243.5
97.5°	1068.2	942.9	814.4	690.1	627.9	574.0	546.0	533.6
100°	1274.4	1223.7	1116.9	1009.2	937.7	863.1	824.8	808.2
102.5°	1343.9	1395.7	1358.4	1294.1	1216.4	1168.8	1126.3	1114.9
105°	1297.2	1439.2	1484.8	1473.4	1440.2	1406.0	1385.3	1372.9
107.5°	1201.9	1389.5	1499.3	1544.9	1554.2	1549.0	1538.7	1528.3
110°	1094.2	1291.0	1437.1	1525.2	1571.8	1591.5	1598.7	1598.7





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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	1009.2	1193.6	1341.8	1449.5	1523.1	1560.4	1581.1	1590.5
115°	940.8	1101.4	1243.4	1356.3	1437.1	1486.8	1515.9	1529.3
117.5°	893.1	1035.1	1159.4	1266.2	1348.0	1399.8	1428.8	1437.1
120°	855.8	980.2	1094.2	1185.3	1262.0	1311.7	1339.7	1348.0
122.5°	827.9	940.8	1039.2	1123.2	1189.5	1234.0	1262.0	1269.3
125°	800.9	906.6	996.8	1071.4	1129.4	1171.9	1194.7	1205.0
127.5°	773.0	873.5	958.4	1028.9	1081.7	1120.1	1141.8	1146.0
130°	747.0	838.2	919.0	986.4	1038.2	1072.4	1093.1	1099.3
132.5°	721.1	805.1	876.6	940.8	992.6	1026.8	1045.5	1052.7
135°	699.4	770.9	837.2	896.3	941.8	976.0	994.7	1000.9
137.5°	679.7	739.8	796.8	848.6	890.0	922.2	939.8	947.0
140°	664.2	712.9	760.5	804.0	842.4	869.3	884.9	890.0
142.5°	650.7	690.1	729.4	765.7	796.8	818.5	833.0	837.2
145°	639.3	671.4	703.5	731.5	756.4	774.0	785.4	789.5
147.5°	627.9	654.8	680.7	702.5	723.2	737.7	745.0	747.0
150°	618.6	641.4	661.1	679.7	695.2	707.7	711.8	712.9
152.5°	608.2	627.9	645.5	659.0	671.4	680.7	684.9	685.9
155°	597.8	614.4	628.9	640.3	650.7	657.9	661.1	662.1
157.5°	587.5	602.0	613.4	622.7	631.0	637.2	640.3	640.3
160°	577.1	587.5	597.8	605.1	612.4	617.5	619.6	618.6
162.5°	565.7	575.1	583.3	589.6	594.7	598.9	598.9	598.9
165°	555.4	562.6	568.8	574.0	578.2	580.2	580.2	580.2
167.5°	545.0	550.2	555.4	559.5	561.6	563.7	562.6	562.6
170°	536.7	539.8	542.9	545.0	547.1	548.1	548.1	547.1
172.5°	527.4	530.5	532.6	533.6	533.6	535.7	533.6	532.6
175°	521.2	521.2	523.2	523.2	523.2	524.3	522.2	521.2
177.5°	516.0	517.0	517.0	517.0	516.0	517.0	513.9	513.9
180°	513.9	513.9	513.9	513.9	513.9	513.9	513.9	513.9

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