

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: P334978

Luminaire Tested: **S125IP-S1035U840-4F0-1E-UDD-4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P334978  
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-S1035U840-4F0-1E-UDD-4  
Description: DEFINE 5 INDIRECT LED LUMINAIRE, BATWING OPTIC  
PENDANT MOUNT, 1035 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3757.7 lumens  
Efficiency: N/A  
Efficacy: 107.1 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')  
CIE Type: Indirect

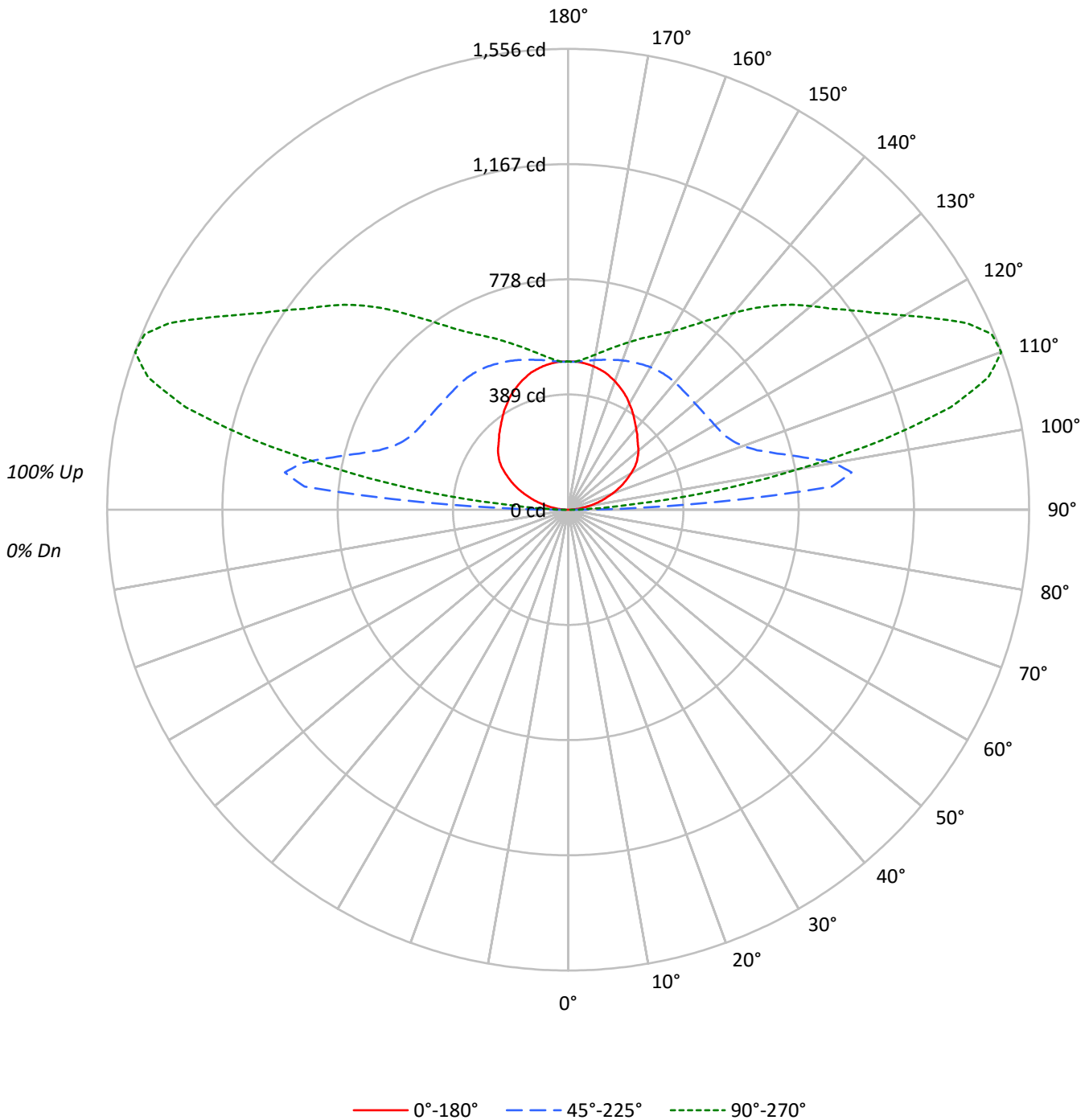
Input Watts (W): 35.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	363.7	9.7
100°-110°	784.3	20.9
110°-120°	731.3	19.5
120°-130°	592.3	15.8
130°-140°	475.6	12.7
140°-150°	358.7	9.5
150°-160°	252.6	6.7
160°-170°	148.9	4.0
170°-180°	48.4	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°	1879.3	50.0
90°-150°	3305.8	88.0
90°-180°	3756.0	100.0
0°-180°	3757.7	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	16	21	23	2
95°	33	98	893	405	237	35
105°	114	159	731	1439	1336	120
115°	204	246	587	1265	1488	200
125°	282	331	562	1006	1172	251
135°	331	398	558	843	974	257
145°	385	441	560	698	768	241
155°	440	473	546	617	644	202
165°	480	493	524	556	564	135
175°	499	499	503	509	507	47
180°	500	500	500	500	500	



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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	2.0	4.0	6.0	8.1	10.1	11.1	13.1	14.1	16.1	17.1
92.5°	15.1	18.1	28.2	43.3	64.5	100.8	169.4	284.3	409.3	402.2	324.6
95°	33.3	34.3	42.3	53.4	75.6	121.0	228.8	450.6	728.9	893.2	874.0
97.5°	51.4	52.4	58.5	69.6	89.7	123.0	197.6	368.0	668.4	964.8	1091.8
100°	70.6	72.6	76.6	87.7	106.9	137.1	195.6	326.6	580.7	910.3	1162.4
102.5°	91.7	92.7	95.8	107.9	125.0	154.2	204.6	309.5	514.1	814.6	1120.0
105°	113.9	113.9	119.0	129.0	145.2	173.4	217.8	307.5	475.8	730.9	1020.2
107.5°	135.1	137.1	142.1	150.2	167.3	192.6	235.9	314.5	455.7	668.4	925.5
110°	158.3	160.3	164.3	173.4	188.5	214.7	256.1	325.6	447.6	627.1	846.8



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	181.5	183.5	186.5	195.6	210.7	235.9	275.2	339.7	447.6	602.9	788.4
115°	203.6	205.7	208.7	217.8	232.9	258.1	295.4	353.9	450.6	586.7	749.0
117.5°	223.8	226.8	229.9	238.9	256.1	280.3	315.5	370.0	455.7	577.7	722.8
120°	244.0	247.0	251.0	260.1	277.2	302.4	337.7	386.1	463.7	571.6	701.7
122.5°	265.1	267.2	270.2	279.2	298.4	323.6	358.9	404.3	470.8	566.6	683.5
125°	282.3	284.3	289.3	298.4	317.6	343.8	377.0	420.4	478.9	562.5	667.4
127.5°	296.4	299.4	305.5	316.6	336.7	362.9	395.2	435.5	487.9	560.5	652.3
130°	309.5	312.5	320.6	333.7	354.9	381.1	412.3	450.6	496.0	558.5	637.1
132.5°	319.6	323.6	333.7	348.8	371.0	397.2	428.5	463.7	505.1	558.5	625.0
135°	330.7	334.7	346.8	362.9	384.1	411.3	442.6	475.8	513.1	558.5	616.0
137.5°	344.8	347.8	358.9	375.0	396.2	424.4	452.6	484.9	521.2	559.5	606.9
140°	356.9	359.9	372.0	388.1	407.3	434.5	463.7	494.0	526.2	560.5	600.8
142.5°	371.0	373.0	384.1	400.2	418.4	443.6	470.8	499.0	529.3	561.5	595.8
145°	385.1	387.1	397.2	411.3	429.5	452.6	478.9	504.1	531.3	560.5	590.8
147.5°	400.2	401.2	410.3	423.4	439.5	460.7	483.9	507.1	532.3	558.5	585.7
150°	413.3	415.3	422.4	435.5	449.6	466.8	488.9	510.1	532.3	555.5	579.7
152.5°	427.4	428.5	434.5	445.6	458.7	473.8	494.0	512.1	531.3	551.4	572.6
155°	439.5	439.5	445.6	455.7	465.8	479.9	497.0	513.1	529.3	546.4	564.5
157.5°	450.6	450.6	455.7	464.7	473.8	484.9	500.0	514.1	527.2	541.4	557.5
160°	461.7	460.7	464.7	471.8	479.9	488.9	502.0	514.1	524.2	536.3	548.4
162.5°	470.8	469.8	473.8	479.9	485.9	493.0	504.1	513.1	521.2	530.3	540.4
165°	479.9	477.8	480.9	485.9	489.9	496.0	504.1	512.1	518.2	524.2	532.3
167.5°	485.9	484.9	486.9	489.9	493.0	497.0	504.1	510.1	513.1	518.2	524.2
170°	492.0	491.0	492.0	494.0	496.0	499.0	504.1	508.1	510.1	513.1	517.2
172.5°	496.0	494.0	495.0	497.0	498.0	499.0	503.1	506.1	506.1	507.1	510.1
175°	499.0	497.0	498.0	499.0	499.0	499.0	502.0	504.1	503.1	503.1	504.1
177.5°	501.0	499.0	499.0	500.0	499.0	499.0	501.0	502.0	500.0	500.0	501.0
180°	500.0	500.0	500.0	500.0	500.0	500.0	500.0	500.0	500.0	500.0	500.0



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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°	18.1	19.2	20.2	22.2	22.2	22.2	23.2	23.2
92.5°	218.8	157.3	116.9	97.8	81.7	78.6	76.6	74.6
95°	724.8	571.6	447.6	362.9	291.3	261.1	253.0	236.9
97.5°	1039.4	917.4	792.4	671.4	610.9	558.5	531.3	519.2
100°	1240.0	1190.6	1086.8	981.9	912.3	839.8	802.5	786.3
102.5°	1307.5	1357.9	1321.6	1259.1	1183.5	1137.2	1095.8	1084.7
105°	1262.2	1400.3	1444.6	1433.5	1401.3	1368.0	1347.9	1335.8
107.5°	1169.4	1351.9	1458.8	1503.1	1512.2	1507.1	1497.1	1487.0
110°	1064.6	1256.1	1398.3	1484.0	1529.3	1548.5	1555.5	1555.5





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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	981.9	1161.4	1305.5	1410.4	1481.9	1518.2	1538.4	1547.5
115°	915.4	1071.6	1209.7	1319.6	1398.3	1446.7	1474.9	1488.0
117.5°	869.0	1007.1	1128.1	1231.9	1311.6	1362.0	1390.2	1398.3
120°	832.7	953.7	1064.6	1153.3	1227.9	1276.3	1303.5	1311.6
122.5°	805.5	915.4	1011.1	1092.8	1157.3	1200.7	1227.9	1234.9
125°	779.3	882.1	969.8	1042.4	1098.9	1140.2	1162.4	1172.4
127.5°	752.1	849.8	932.5	1001.1	1052.5	1089.8	1110.9	1115.0
130°	726.9	815.6	894.2	959.7	1010.1	1043.4	1063.6	1069.6
132.5°	701.7	783.3	852.9	915.4	965.8	999.0	1017.2	1024.3
135°	680.5	750.0	814.6	872.0	916.4	949.7	967.8	973.8
137.5°	661.3	719.8	775.2	825.7	866.0	897.2	914.4	921.4
140°	646.2	693.6	740.0	782.3	819.6	845.8	860.9	866.0
142.5°	633.1	671.4	709.7	745.0	775.2	796.4	810.5	814.6
145°	622.0	653.3	684.5	711.7	735.9	753.1	764.2	768.2
147.5°	610.9	637.1	662.3	683.5	703.7	717.8	724.8	726.9
150°	601.8	624.0	643.2	661.3	676.4	688.5	692.6	693.6
152.5°	591.8	610.9	628.1	641.2	653.3	662.3	666.4	667.4
155°	581.7	597.8	611.9	623.0	633.1	640.2	643.2	644.2
157.5°	571.6	585.7	596.8	605.9	613.9	620.0	623.0	623.0
160°	561.5	571.6	581.7	588.7	595.8	600.8	602.9	601.8
162.5°	550.4	559.5	567.6	573.6	578.7	582.7	582.7	582.7
165°	540.4	547.4	553.5	558.5	562.5	564.5	564.5	564.5
167.5°	530.3	535.3	540.4	544.4	546.4	548.4	547.4	547.4
170°	522.2	525.2	528.3	530.3	532.3	533.3	533.3	532.3
172.5°	513.1	516.2	518.2	519.2	519.2	521.2	519.2	518.2
175°	507.1	507.1	509.1	509.1	509.1	510.1	508.1	507.1
177.5°	502.0	503.1	503.1	503.1	502.0	503.1	500.0	500.0
180°	500.0	500.0	500.0	500.0	500.0	500.0	500.0	500.0

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