

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: P334968

Luminaire Tested: **S125IP-S1035U830-4F0-1E-UDD-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334968
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-S1035U830-4F0-1E-UDD-4
Description: DEFINE 5 INDIRECT LED LUMINAIRE, BATWING OPTIC
PENDANT MOUNT, 1035 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

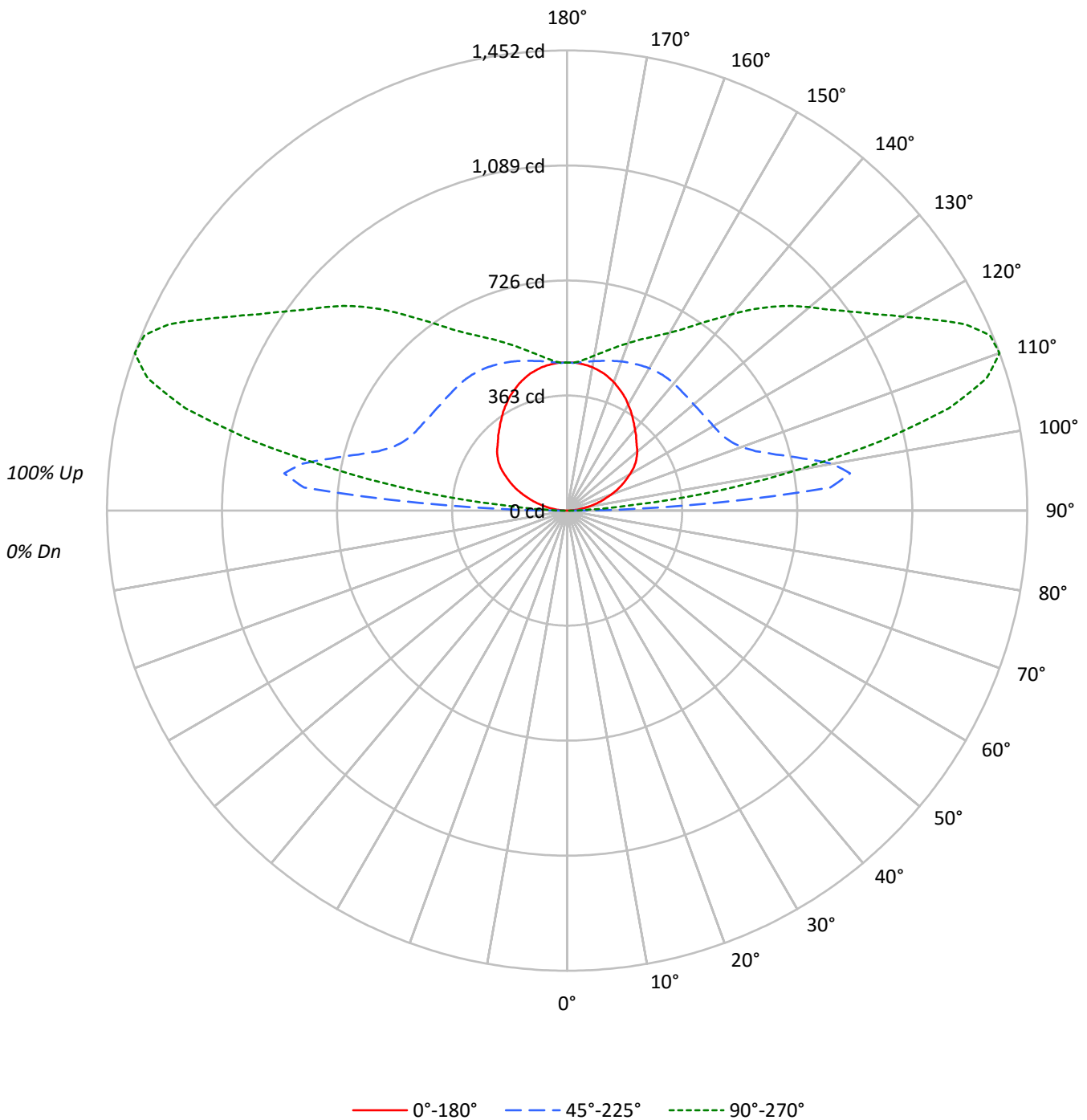
Lumens per Lamp: N/A
Luminaire Lumens: 3507.2 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 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°	1.9	0.1
90°-100°	339.5	9.7
100°-110°	732.1	20.9
110°-120°	682.5	19.5
120°-130°	552.8	15.8
130°-140°	443.9	12.7
140°-150°	334.8	9.5
150°-160°	235.8	6.7
160°-170°	138.9	4.0
170°-180°	45.2	1.3
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.9	0.1
90°-120°	1754.0	50.0
90°-150°	3085.5	88.0
90°-180°	3505.0	99.9
0°-180°	3507.2	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	20	22	2
95°	31	92	834	378	221	32
105°	106	149	682	1343	1247	112
115°	190	229	548	1180	1389	187
125°	264	309	525	939	1094	234
135°	309	371	521	787	909	240
145°	359	412	523	652	717	225
155°	410	441	510	576	601	189
165°	448	460	489	519	527	126
175°	466	466	470	475	473	44
180°	467	467	467	467	467	



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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	1.9	3.8	5.6	7.5	9.4	10.4	12.2	13.2	15.1	16.0
92.5°	14.1	16.9	26.3	40.5	60.2	94.1	158.1	265.3	382.0	375.4	303.0
95°	31.1	32.0	39.5	49.9	70.6	112.9	213.6	420.6	680.3	833.7	815.8
97.5°	48.0	48.9	54.6	64.9	83.7	114.8	184.4	343.4	623.8	900.5	1019.0
100°	65.9	67.7	71.5	81.9	99.7	128.0	182.5	304.9	542.0	849.6	1084.9
102.5°	85.6	86.6	89.4	100.7	116.7	144.0	191.0	288.9	479.9	760.3	1045.4
105°	106.3	106.3	111.0	120.4	135.5	161.8	203.2	287.0	444.1	682.2	952.2
107.5°	126.1	128.0	132.7	140.2	156.2	179.7	220.2	293.6	425.3	623.8	863.8
110°	147.7	149.6	153.4	161.8	176.0	200.4	239.0	303.9	417.8	585.2	790.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	169.4	171.2	174.1	182.5	196.7	220.2	256.9	317.1	417.8	562.7	735.8
115°	190.1	191.9	194.8	203.2	217.4	240.9	275.7	330.3	420.6	547.6	699.1
117.5°	208.9	211.7	214.5	223.0	239.0	261.6	294.5	345.3	425.3	539.1	674.6
120°	227.7	230.5	234.3	242.8	258.8	282.3	315.2	360.4	432.8	533.5	654.9
122.5°	247.5	249.3	252.2	260.6	278.5	302.0	335.0	377.3	439.4	528.8	637.9
125°	263.5	265.3	270.0	278.5	296.4	320.9	351.9	392.4	446.9	525.0	622.9
127.5°	276.6	279.5	285.1	295.4	314.3	338.7	368.8	406.5	455.4	523.1	608.8
130°	288.9	291.7	299.2	311.4	331.2	355.7	384.8	420.6	462.9	521.3	594.7
132.5°	298.3	302.0	311.4	325.6	346.3	370.7	399.9	432.8	471.4	521.3	583.4
135°	308.6	312.4	323.7	338.7	358.5	383.9	413.1	444.1	478.9	521.3	574.9
137.5°	321.8	324.6	335.0	350.0	369.8	396.1	422.5	452.6	486.5	522.2	566.4
140°	333.1	335.9	347.2	362.3	380.1	405.5	432.8	461.0	491.2	523.1	560.8
142.5°	346.3	348.1	358.5	373.5	390.5	414.0	439.4	465.8	494.0	524.1	556.1
145°	359.4	361.3	370.7	383.9	400.8	422.5	446.9	470.5	495.9	523.1	551.4
147.5°	373.5	374.5	383.0	395.2	410.2	430.0	451.6	473.3	496.8	521.3	546.7
150°	385.8	387.7	394.2	406.5	419.6	435.6	456.3	476.1	496.8	518.4	541.0
152.5°	398.9	399.9	405.5	415.9	428.1	442.2	461.0	478.0	495.9	514.7	534.4
155°	410.2	410.2	415.9	425.3	434.7	447.9	463.9	478.9	494.0	510.0	526.9
157.5°	420.6	420.6	425.3	433.8	442.2	452.6	466.7	479.9	492.1	505.3	520.3
160°	430.9	430.0	433.8	440.3	447.9	456.3	468.6	479.9	489.3	500.6	511.9
162.5°	439.4	438.5	442.2	447.9	453.5	460.1	470.5	478.9	486.5	494.9	504.3
165°	447.9	446.0	448.8	453.5	457.3	462.9	470.5	478.0	483.6	489.3	496.8
167.5°	453.5	452.6	454.5	457.3	460.1	463.9	470.5	476.1	478.9	483.6	489.3
170°	459.2	458.2	459.2	461.0	462.9	465.8	470.5	474.2	476.1	478.9	482.7
172.5°	462.9	461.0	462.0	463.9	464.8	465.8	469.5	472.3	472.3	473.3	476.1
175°	465.8	463.9	464.8	465.8	465.8	465.8	468.6	470.5	469.5	469.5	470.5
177.5°	467.6	465.8	465.8	466.7	465.8	465.8	467.6	468.6	466.7	466.7	467.6
180°	466.7	466.7	466.7	466.7	466.7	466.7	466.7	466.7	466.7	466.7	466.7



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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°	16.9	17.9	18.8	20.7	20.7	20.7	21.6	21.6
92.5°	204.2	146.8	109.1	91.3	76.2	73.4	71.5	69.6
95°	676.5	533.5	417.8	338.7	271.9	243.7	236.2	221.1
97.5°	970.1	856.2	739.6	626.6	570.2	521.3	495.9	484.6
100°	1157.3	1111.2	1014.3	916.5	851.5	783.8	749.0	733.9
102.5°	1220.4	1267.4	1233.5	1175.2	1104.6	1061.4	1022.8	1012.4
105°	1178.0	1306.9	1348.3	1338.0	1307.9	1276.8	1258.0	1246.7
107.5°	1091.5	1261.8	1361.5	1402.9	1411.4	1406.7	1397.3	1387.8
110°	993.6	1172.4	1305.0	1385.0	1427.4	1445.2	1451.8	1451.8



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	916.5	1083.9	1218.5	1316.3	1383.1	1417.0	1435.8	1444.3
115°	854.4	1000.2	1129.1	1231.7	1305.0	1350.2	1376.6	1388.8
117.5°	811.1	940.0	1052.9	1149.8	1224.1	1271.2	1297.5	1305.0
120°	777.2	890.1	993.6	1076.4	1146.0	1191.2	1216.6	1224.1
122.5°	751.8	854.4	943.7	1020.0	1080.2	1120.6	1146.0	1152.6
125°	727.3	823.3	905.2	972.9	1025.6	1064.2	1084.9	1094.3
127.5°	701.9	793.2	870.3	934.3	982.3	1017.1	1036.9	1040.7
130°	678.4	761.2	834.6	895.8	942.8	973.8	992.7	998.3
132.5°	654.9	731.1	796.0	854.4	901.4	932.4	949.4	956.0
135°	635.1	700.0	760.3	813.9	855.3	886.3	903.3	908.9
137.5°	617.2	671.8	723.6	770.6	808.2	837.4	853.4	860.0
140°	603.1	647.3	690.6	730.2	765.0	789.4	803.5	808.2
142.5°	590.9	626.6	662.4	695.3	723.6	743.3	756.5	760.3
145°	580.5	609.7	638.9	664.3	686.9	702.9	713.2	717.0
147.5°	570.2	594.7	618.2	637.9	656.8	669.9	676.5	678.4
150°	561.7	582.4	600.3	617.2	631.4	642.6	646.4	647.3
152.5°	552.3	570.2	586.2	598.4	609.7	618.2	621.9	622.9
155°	542.9	558.0	571.1	581.5	590.9	597.5	600.3	601.2
157.5°	533.5	546.7	557.0	565.5	573.0	578.7	581.5	581.5
160°	524.1	533.5	542.9	549.5	556.1	560.8	562.7	561.7
162.5°	513.7	522.2	529.7	535.4	540.1	543.8	543.8	543.8
165°	504.3	510.9	516.6	521.3	525.0	526.9	526.9	526.9
167.5°	494.9	499.6	504.3	508.1	510.0	511.9	510.9	510.9
170°	487.4	490.2	493.0	494.9	496.8	497.7	497.7	496.8
172.5°	478.9	481.7	483.6	484.6	484.6	486.5	484.6	483.6
175°	473.3	473.3	475.2	475.2	475.2	476.1	474.2	473.3
177.5°	468.6	469.5	469.5	469.5	468.6	469.5	466.7	466.7
180°	466.7	466.7	466.7	466.7	466.7	466.7	466.7	466.7

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