

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1007377

Luminaire Tested: S122IP-B330UB50-4F0-XX-W2A-4

Issue Date: 5/5/2025

Test Information

Test Method: LM-79-2019
Report Number: P1007377
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122IP-B330UB50-4F0-XX-W2A-4
Description: Define 2 Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

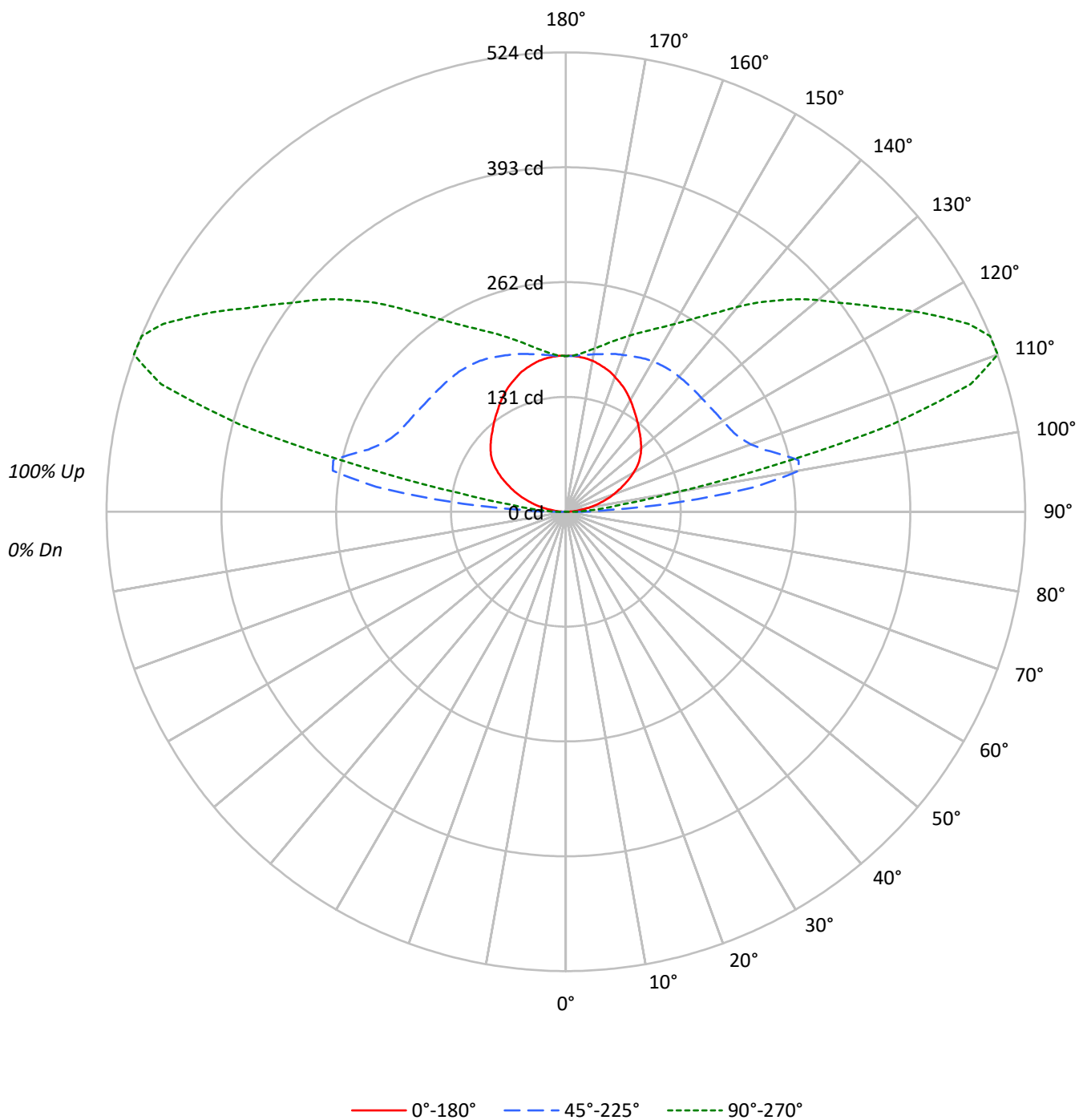
Lumens per Lamp: N/A
Luminaire Lumens: 1239.0 lumens
Efficiency: N/A
Efficacy: 133.2 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 9.3
Input Voltage (V):
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: 24 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				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	50	30	10	0
RCR																					
0	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	10	10	10	0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	8	8	8	0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	7	7	7	0
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6	6	6	6	0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	5	5	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	4	4	4	0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	4	4	4	0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	3	3	3	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	3	3	3	0
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3	3	3	3	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	2	2	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

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 0°
Luminance: 0 cd/sqm

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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°	1.1	0.1
90°-100°	69.3	5.6
100°-110°	244.0	19.7
110°-120°	256.3	20.7
120°-130°	210.8	17.0
130°-140°	169.4	13.7
140°-150°	127.9	10.3
150°-160°	89.9	7.3
160°-170°	52.9	4.3
170°-180°	17.2	1.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.1	0.1
90°-120°	569.6	46.0
90°-150°	1077.7	87.0
90°-180°	1238.0	99.9
0°-180°	1239.0	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°	0	5	12	11	11	1
95°	12	29	134	51	39	12
105°	42	63	253	453	385	44
115°	74	93	212	437	507	73
125°	102	121	204	354	411	91
135°	120	144	201	298	341	93
145°	137	158	200	249	272	86
155°	156	169	194	220	229	72
165°	170	175	186	198	201	48
175°	177	178	179	181	181	17
180°	178	178	178	178	178	

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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	1.4	2.7	3.4	4.1	5.1	6.8	9.2	11.3	11.6	11.3
92.5°	5.1	7.2	9.9	11.6	14.4	18.1	27.3	40.3	52.0	52.6	44.1
95°	12.0	13.3	16.7	19.8	25.3	33.5	49.2	79.0	118.6	134.0	117.2
97.5°	17.8	19.8	23.6	28.0	34.2	43.4	63.6	104.9	168.9	218.4	220.1
100°	26.3	27.3	30.4	35.9	42.7	52.3	70.4	112.1	186.0	270.0	319.3
102.5°	34.2	34.9	37.9	43.4	50.6	60.2	76.6	112.5	179.5	271.8	356.2
105°	41.7	43.1	45.5	50.6	58.1	67.7	83.7	114.2	170.6	253.3	344.2
107.5°	49.9	50.9	53.3	58.1	65.6	75.2	90.9	117.9	165.8	236.2	318.9
110°	58.1	59.5	61.5	66.0	73.2	83.1	98.1	122.7	164.4	224.6	295.3

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	65.6	67.0	69.4	73.5	80.3	90.6	104.9	127.8	164.8	217.1	278.9
115°	73.5	75.2	77.3	81.4	88.2	97.4	112.1	133.0	166.1	211.9	265.9
117.5°	81.7	83.1	85.1	88.9	95.4	104.9	118.6	138.4	168.2	209.2	257.1
120°	89.2	90.6	92.6	95.7	102.5	112.1	125.5	143.9	170.2	206.8	250.2
122.5°	96.4	97.4	99.5	102.9	109.7	119.6	131.9	148.7	172.6	205.4	244.4
125°	102.5	103.6	105.6	109.7	116.6	126.1	138.4	153.8	175.0	203.7	238.9
127.5°	107.7	109.0	111.8	116.2	122.7	132.6	144.6	158.6	177.4	202.7	233.8
130°	112.1	113.5	116.9	121.7	128.5	138.1	150.1	163.1	180.1	202.0	228.7
132.5°	116.2	117.9	121.7	126.8	134.0	143.6	154.8	167.5	182.9	201.7	224.6
135°	120.3	121.7	125.8	130.9	138.8	148.4	159.3	171.3	184.9	201.3	220.8
137.5°	124.1	125.8	129.9	135.4	143.2	152.1	163.1	174.3	187.0	201.3	218.1
140°	128.5	129.9	134.0	139.5	147.0	155.9	166.1	176.7	188.3	201.0	215.7
142.5°	133.0	134.0	137.8	143.2	150.4	158.6	168.5	178.8	189.4	201.0	213.3
145°	137.4	138.8	142.2	147.3	154.2	161.7	170.9	180.5	190.1	200.3	211.2
147.5°	142.2	143.2	146.6	151.4	157.2	164.1	173.0	181.5	190.4	199.3	209.2
150°	147.0	148.0	150.7	155.2	160.3	166.5	174.3	182.2	190.1	198.3	206.5
152.5°	151.8	152.1	154.8	158.6	163.4	168.9	175.7	182.5	189.4	196.6	204.1
155°	156.2	156.6	158.6	162.4	166.1	171.3	177.1	182.9	188.7	194.5	201.0
157.5°	160.0	160.3	162.0	165.4	168.5	173.0	178.1	182.9	187.3	192.4	198.3
160°	163.7	164.1	165.4	168.2	170.9	174.7	178.8	182.9	186.3	190.4	195.2
162.5°	167.5	167.2	168.5	170.6	173.0	175.7	179.1	182.5	185.3	188.7	192.4
165°	170.2	169.9	170.6	172.6	174.3	176.4	179.5	181.9	183.9	186.3	189.4
167.5°	172.6	172.3	173.0	174.3	175.7	177.1	179.5	181.5	182.5	184.2	186.3
170°	175.0	174.3	174.7	175.7	176.4	177.4	179.1	180.8	181.5	182.5	183.9
172.5°	176.4	176.0	175.7	176.7	177.1	177.8	178.8	179.8	180.1	180.5	181.5
175°	177.4	177.1	176.7	177.4	177.4	177.8	178.4	179.1	178.8	179.1	179.5
177.5°	178.1	177.4	177.1	177.8	177.8	177.8	178.1	178.8	178.1	177.8	178.1
180°	177.8	177.8	177.8	177.8	177.8	177.8	177.8	177.8	177.8	177.8	177.8

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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°	10.9	10.3	10.9	11.3	11.3	11.3	11.3	11.3
92.5°	34.5	29.4	25.6	22.9	22.6	21.2	21.5	20.9
95°	89.6	68.7	54.4	46.8	42.4	39.7	38.6	39.0
97.5°	183.2	146.3	111.8	91.3	77.9	71.1	67.3	65.3
100°	312.1	269.7	222.9	181.5	153.1	138.4	128.5	122.4
102.5°	396.5	395.2	364.0	319.6	288.2	260.5	247.5	238.6
105°	415.3	453.9	458.4	447.1	425.9	404.7	390.0	385.2
107.5°	395.2	452.6	486.1	499.8	499.4	496.3	491.9	484.0
110°	367.5	428.7	472.4	500.4	515.1	521.6	524.7	524.4

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CATALOG NUMBER: S122IP-B330UB50-4F0-XX-W2A-4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	342.2	400.3	447.8	481.0	502.8	514.8	521.3	523.7
115°	322.3	375.0	419.8	455.0	479.2	495.0	503.9	506.9
117.5°	305.9	353.1	394.8	428.3	453.3	470.0	479.2	481.6
120°	294.3	336.7	372.9	404.0	428.0	444.0	453.9	457.4
122.5°	285.1	323.0	356.9	384.2	405.1	420.8	429.3	432.1
125°	276.2	311.4	341.5	367.1	386.9	399.9	408.5	411.2
127.5°	267.3	299.8	328.5	352.4	369.9	382.2	389.7	391.7
130°	258.8	288.2	315.2	337.7	354.5	366.1	372.9	375.7
132.5°	250.6	277.2	301.5	322.3	338.8	350.4	356.5	358.9
135°	243.0	265.6	288.2	307.3	322.0	333.3	339.4	340.8
137.5°	236.9	256.4	274.8	291.9	305.9	315.8	321.3	323.4
140°	231.1	247.5	263.2	278.2	289.2	298.1	303.2	305.3
142.5°	226.3	239.6	252.6	264.6	274.8	282.7	287.1	287.1
145°	221.8	233.1	243.7	253.6	261.8	267.7	271.1	272.1
147.5°	218.4	227.7	236.2	243.7	250.9	255.7	258.1	258.8
150°	214.7	222.2	229.4	235.5	240.6	244.7	246.8	247.1
152.5°	210.9	217.7	223.6	228.7	232.4	235.9	237.2	237.2
155°	207.5	213.0	218.1	221.8	225.6	228.0	229.4	228.7
157.5°	203.4	208.2	212.6	215.7	218.4	220.5	221.2	221.2
160°	199.6	203.4	207.1	209.5	211.9	213.6	214.0	214.0
162.5°	195.9	198.9	202.0	203.7	206.1	207.1	207.5	207.1
165°	192.1	194.5	196.9	198.3	199.6	201.0	201.0	200.7
167.5°	188.3	190.4	192.1	193.5	194.2	194.8	194.8	194.5
170°	185.6	186.6	188.0	188.7	189.0	190.1	189.7	189.0
172.5°	182.5	183.2	184.2	184.6	184.9	185.3	184.9	184.6
175°	180.5	180.8	181.2	181.5	181.5	181.9	181.5	180.8
177.5°	178.8	178.8	179.1	179.1	179.1	179.1	178.8	178.1
180°	177.8	177.8	177.8	177.8	177.8	177.8	177.8	177.8

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