

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: P1007540

Luminaire Tested: S123IP-B365UB2750-4F0-XX-W2A-4_4000K

Issue Date: 5/5/2025

Test Information

Test Method: LM-79-2019
Report Number: P1007540
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123IP-B365UB2750-4F0-XX-W2A-4_4000K
Description: Define 3 Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

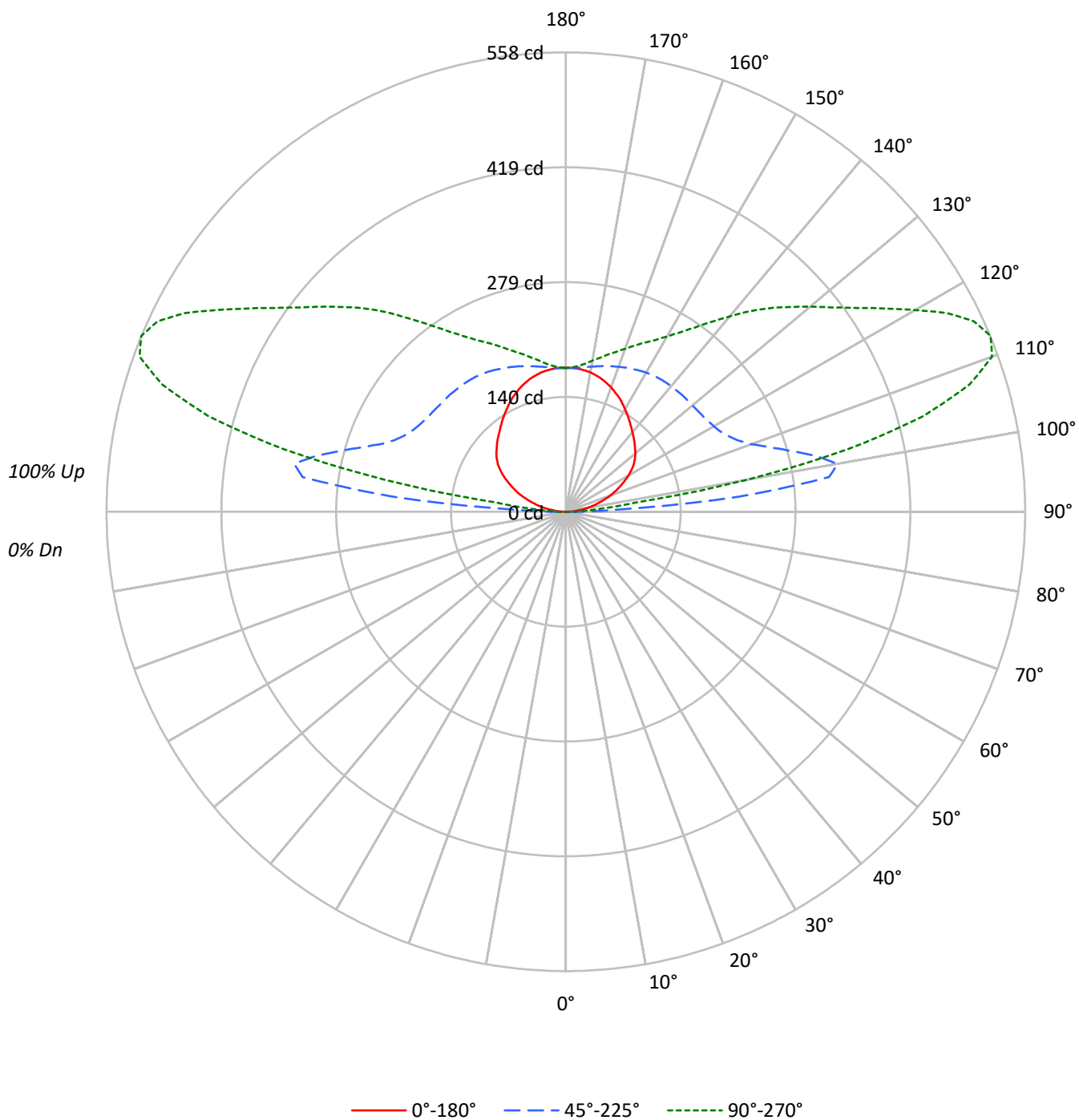
Lumens per Lamp: N/A
Luminaire Lumens: 1315.0 lumens
Efficiency: N/A
Efficacy: 141.4 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 9.3
Input Voltage (V):
Input Current (A_{in}): 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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CATALOG NUMBER: S123IP-B365UB2750-4F0-XX-W2A-4_4000K

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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2

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°	1.0	0.1
90°-100°	94.8	7.2
100°-110°	277.5	21.1
110°-120°	271.0	20.6
120°-130°	215.8	16.4
130°-140°	170.3	12.9
140°-150°	127.0	9.7
150°-160°	88.6	6.7
160°-170°	52.0	4.0
170°-180°	16.9	1.3
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.0	0.1
90°-120°	643.3	48.9
90°-150°	1156.5	87.9
90°-180°	1314.0	99.9
0°-180°	1315.0	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	4	9	10	10	1
95°	12	39	210	61	41	13
105°	41	61	284	497	450	44
115°	72	90	218	477	547	72
125°	101	119	203	368	431	90
135°	118	141	200	303	350	91
145°	135	154	198	248	273	84
155°	153	165	191	218	227	70
165°	167	172	183	194	198	47
175°	174	174	176	178	178	17
180°	175	175	175	175	175	

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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°	0.7	1.4	2.1	3.2	3.9	4.6	5.7	6.7	7.8	8.8	8.5
92.5°	5.3	7.8	11.3	14.5	18.0	24.4	35.7	54.5	72.8	65.8	49.2
95°	12.0	13.1	17.0	23.0	32.2	46.0	76.0	128.7	186.7	209.7	170.1
97.5°	19.1	19.4	22.6	27.9	37.1	52.3	82.0	143.2	240.8	322.5	333.5
100°	26.2	26.5	29.0	33.9	42.4	56.2	81.0	133.3	226.3	334.9	404.5
102.5°	33.6	34.3	36.4	41.0	48.4	60.8	82.4	124.8	205.1	311.9	408.1
105°	41.0	42.1	44.2	48.4	55.2	66.1	85.2	121.6	188.5	284.3	385.8
107.5°	48.8	49.9	52.0	56.2	62.6	72.8	89.8	120.9	176.5	259.9	354.0
110°	57.3	58.3	60.1	64.0	70.0	79.9	95.8	122.7	170.1	239.8	324.3

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	65.1	66.1	67.9	71.8	77.8	87.3	101.8	126.2	166.6	226.3	298.5
115°	72.5	73.9	76.0	79.6	85.6	95.1	108.6	130.1	166.2	217.5	278.7
117.5°	79.9	81.7	83.5	86.6	93.4	102.2	115.6	135.1	166.6	211.5	265.6
120°	87.7	88.8	90.5	94.1	100.8	109.6	122.4	140.7	168.0	207.6	255.7
122.5°	94.4	95.5	97.2	101.1	107.5	117.0	129.4	146.0	170.4	205.1	247.5
125°	100.8	101.5	103.6	107.5	114.2	123.8	136.1	151.7	172.9	203.0	240.8
127.5°	105.7	106.8	109.3	113.2	120.6	130.1	142.2	156.3	175.8	201.9	234.5
130°	110.3	111.4	114.6	118.8	126.2	135.8	147.5	160.9	178.6	200.9	229.5
132.5°	113.9	115.3	118.8	124.1	131.5	140.7	152.1	165.1	180.7	200.5	224.9
135°	118.1	119.5	123.4	128.7	136.1	145.7	156.7	168.7	182.8	200.2	221.0
137.5°	122.0	123.4	127.3	133.0	140.4	149.2	159.8	171.5	184.2	199.4	217.5
140°	125.9	127.7	131.2	136.9	143.9	152.8	163.0	173.6	185.7	199.1	214.3
142.5°	130.1	131.5	135.4	140.4	147.5	155.6	165.5	175.8	186.7	198.4	211.5
145°	134.7	135.8	139.0	144.3	150.3	158.4	167.6	177.2	187.1	197.7	209.0
147.5°	139.3	140.0	143.2	147.8	153.8	160.9	169.4	178.2	187.1	196.6	206.5
150°	143.9	144.3	147.1	151.7	156.7	163.0	171.2	178.6	187.1	195.2	204.0
152.5°	148.5	148.5	151.4	155.2	159.5	165.5	172.2	179.3	186.0	193.4	201.2
155°	153.1	153.1	155.2	158.8	162.7	167.6	173.6	179.3	185.3	191.3	198.4
157.5°	156.7	157.0	158.8	162.0	165.5	169.4	174.3	179.6	184.2	189.5	195.2
160°	160.9	160.9	162.3	165.1	167.6	171.2	175.4	179.6	183.5	187.4	192.0
162.5°	164.1	164.1	165.1	167.3	169.4	172.2	175.8	179.3	182.1	185.3	188.8
165°	167.3	166.9	167.6	169.4	170.8	173.3	176.1	178.6	180.7	183.2	186.0
167.5°	169.7	169.4	169.7	171.2	172.2	174.0	176.1	178.2	179.3	181.1	183.2
170°	171.9	171.2	171.5	172.6	173.3	174.0	175.8	177.2	177.9	178.9	180.7
172.5°	173.3	172.9	172.9	173.6	174.0	174.3	175.8	176.8	176.8	177.2	178.2
175°	174.3	174.0	173.6	174.3	174.3	174.7	175.4	176.1	175.8	175.8	176.5
177.5°	175.0	174.7	174.3	174.7	174.7	174.7	175.0	175.8	175.0	174.7	175.0
180°	174.7	174.7	174.7	174.7	174.7	174.7	174.7	174.7	174.7	174.7	174.7

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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°	8.8	9.2	9.5	10.3	9.9	10.3	10.6	10.3
92.5°	35.0	27.2	23.7	21.2	20.5	19.1	19.4	18.7
95°	127.3	86.3	67.5	54.8	48.1	44.9	42.4	41.0
97.5°	292.4	220.7	174.0	133.7	110.0	96.5	88.1	84.2
100°	416.9	388.3	346.9	296.7	261.0	235.2	221.4	221.7
102.5°	458.3	464.3	444.5	417.3	391.5	372.4	361.4	351.1
105°	459.7	495.1	501.8	492.6	476.3	462.9	451.6	449.8
107.5°	438.5	494.0	521.6	531.1	529.0	522.7	518.1	514.2
110°	405.3	470.3	514.9	539.6	549.5	552.4	551.7	550.9

TEST NUMBER: P1007540

CATALOG NUMBER: S123IP-B365UB2750-4F0-XX-W2A-4_4000K

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	372.4	439.2	490.5	524.1	544.2	554.5	558.0	558.4
115°	344.1	405.6	457.6	496.1	522.7	538.2	545.3	547.1
117.5°	322.2	376.6	424.3	464.3	491.9	509.2	519.8	522.3
120°	305.5	353.3	395.7	431.4	459.4	479.2	487.6	489.8
122.5°	292.4	334.5	373.1	405.6	429.7	447.0	456.5	459.4
125°	281.1	319.7	353.6	381.9	404.5	420.1	428.9	431.4
127.5°	270.9	305.9	337.0	363.2	383.7	397.1	405.3	407.4
130°	261.3	293.2	321.8	345.8	364.6	377.3	384.7	387.6
132.5°	252.5	281.1	307.3	329.9	347.3	360.0	366.4	368.1
135°	244.7	269.8	292.8	313.0	330.3	340.9	347.3	349.7
137.5°	237.3	258.5	279.0	297.0	311.9	322.9	328.2	330.3
140°	230.9	249.0	265.9	281.1	294.6	304.5	310.1	309.8
142.5°	224.9	239.8	253.9	266.6	277.6	286.1	291.0	290.7
145°	220.3	232.0	243.3	253.5	262.4	269.8	272.6	273.4
147.5°	216.4	226.0	235.5	242.9	250.0	255.3	258.1	258.5
150°	212.2	220.3	227.7	234.5	239.8	243.6	245.8	245.8
152.5°	208.3	215.0	221.4	226.7	230.6	234.1	235.2	235.2
155°	204.4	210.1	215.4	219.6	222.8	225.6	226.3	226.7
157.5°	200.2	205.1	209.3	212.9	215.7	217.8	218.5	218.5
160°	196.6	200.5	204.0	206.5	209.0	211.1	211.1	210.8
162.5°	192.4	195.6	198.7	200.9	202.3	204.0	204.0	203.7
165°	188.8	191.0	193.4	195.2	196.6	198.0	197.7	197.7
167.5°	185.7	187.4	188.8	190.2	191.0	192.0	191.7	191.7
170°	182.5	183.5	184.9	185.7	186.0	186.7	186.4	186.4
172.5°	179.6	180.3	181.4	181.8	181.8	182.5	181.8	181.4
175°	177.2	177.5	178.2	178.2	178.2	178.6	178.2	177.9
177.5°	175.4	175.8	176.1	176.1	175.8	176.1	175.4	175.4
180°	174.7	174.7	174.7	174.7	174.7	174.7	174.7	174.7

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