

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: P1007539

Luminaire Tested: S123IP-B365UB2750-4F0-XX-W2A-4_3500K

Issue Date: 5/5/2025

Test Information

Test Method: LM-79-2019
Report Number: P1007539
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_3500K
Description: Define 3 Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

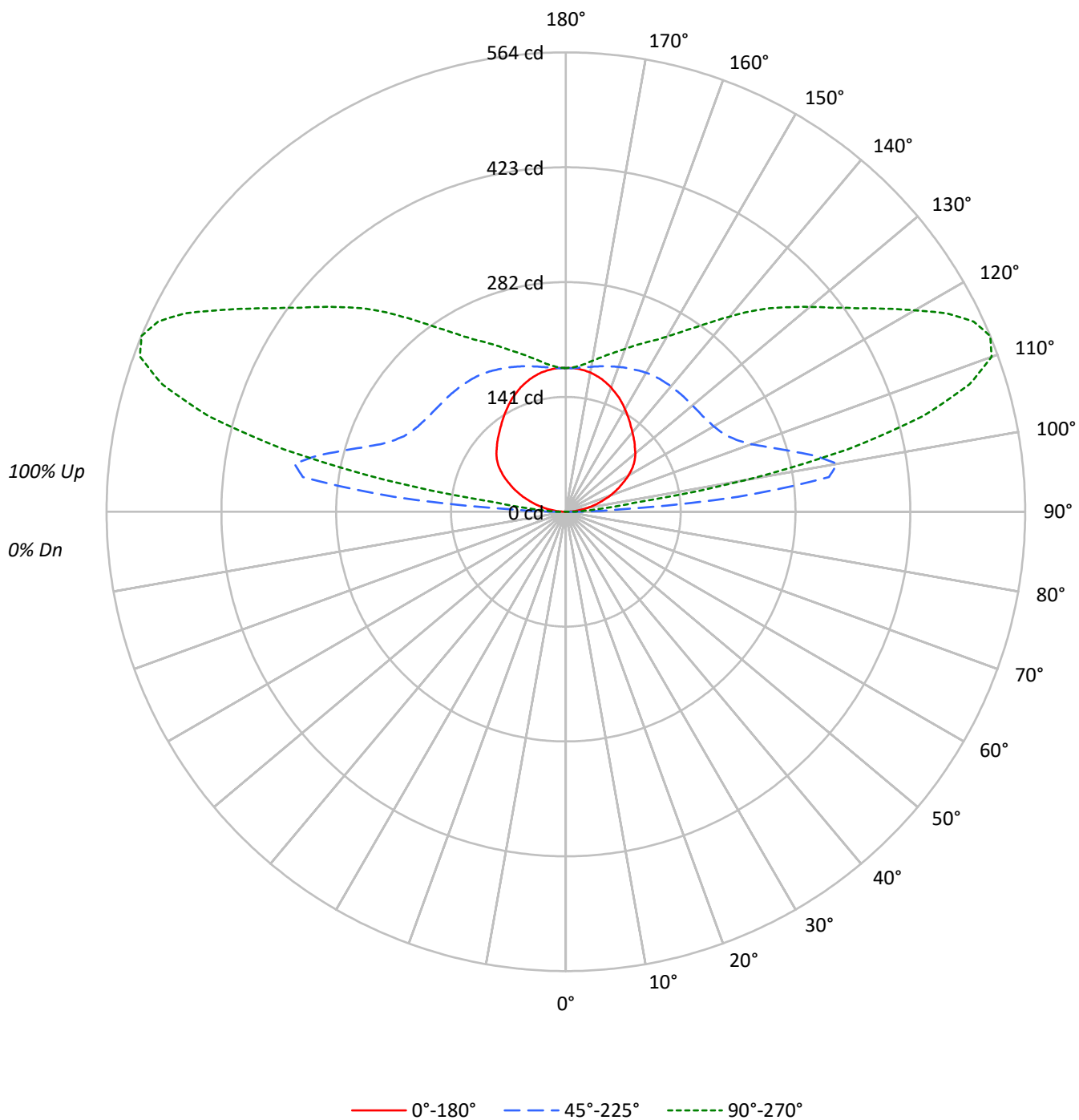
Lumens per Lamp: N/A
Luminaire Lumens: 1328.0 lumens
Efficiency: N/A
Efficacy: 142.8 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Indirect

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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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°	95.7	7.2
100°-110°	280.3	21.1
110°-120°	273.7	20.6
120°-130°	218.0	16.4
130°-140°	172.0	12.9
140°-150°	128.3	9.7
150°-160°	89.4	6.7
160°-170°	52.5	4.0
170°-180°	17.1	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°	649.7	48.9
90°-150°	1167.9	87.9
90°-180°	1327.0	99.9
0°-180°	1328.0	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	212	62	41	13
105°	41	61	287	502	454	44
115°	73	91	220	482	552	72
125°	102	120	205	371	436	90
135°	119	142	202	306	353	92
145°	136	156	200	251	276	85
155°	155	167	193	220	229	71
165°	169	174	185	196	200	48
175°	176	176	178	180	180	17
180°	176	176	176	176	176	

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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	6.8	7.9	8.9	8.6
92.5°	5.4	7.9	11.4	14.6	18.2	24.6	36.1	55.0	73.6	66.4	49.6
95°	12.1	13.2	17.1	23.2	32.5	46.4	76.8	130.0	188.6	211.8	171.8
97.5°	19.3	19.6	22.9	28.2	37.5	52.9	82.9	144.6	243.2	325.7	336.8
100°	26.4	26.8	29.3	34.3	42.9	56.8	81.8	134.6	228.6	338.2	408.5
102.5°	33.9	34.6	36.8	41.4	48.9	61.4	83.2	126.1	207.1	315.0	412.1
105°	41.4	42.5	44.6	48.9	55.7	66.8	86.1	122.8	190.3	287.1	389.6
107.5°	49.3	50.4	52.5	56.8	63.2	73.6	90.7	122.1	178.2	262.5	357.5
110°	57.9	58.9	60.7	64.6	70.7	80.7	96.8	123.9	171.8	242.1	327.5

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CATALOG NUMBER: S123IP-B365UB2750-4F0-XX-W2A-4_3500K

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	65.7	66.8	68.6	72.5	78.6	88.2	102.9	127.5	168.2	228.6	301.4
115°	73.2	74.6	76.8	80.4	86.4	96.1	109.6	131.4	167.8	219.6	281.4
117.5°	80.7	82.5	84.3	87.5	94.3	103.2	116.8	136.4	168.2	213.6	268.2
120°	88.6	89.6	91.4	95.0	101.8	110.7	123.6	142.1	169.6	209.6	258.2
122.5°	95.4	96.4	98.2	102.1	108.6	118.2	130.7	147.5	172.1	207.1	250.0
125°	101.8	102.5	104.6	108.6	115.3	125.0	137.5	153.2	174.6	205.0	243.2
127.5°	106.8	107.8	110.3	114.3	121.8	131.4	143.6	157.8	177.5	203.9	236.8
130°	111.4	112.5	115.7	120.0	127.5	137.1	148.9	162.5	180.3	202.8	231.8
132.5°	115.0	116.4	120.0	125.3	132.8	142.1	153.6	166.8	182.5	202.5	227.1
135°	119.3	120.7	124.6	130.0	137.5	147.1	158.2	170.3	184.6	202.1	223.2
137.5°	123.2	124.6	128.6	134.3	141.8	150.7	161.4	173.2	186.1	201.4	219.6
140°	127.1	128.9	132.5	138.2	145.3	154.3	164.6	175.3	187.5	201.1	216.4
142.5°	131.4	132.8	136.8	141.8	148.9	157.1	167.1	177.5	188.6	200.3	213.6
145°	136.1	137.1	140.3	145.7	151.8	160.0	169.3	178.9	188.9	199.6	211.1
147.5°	140.7	141.4	144.6	149.3	155.3	162.5	171.1	180.0	188.9	198.6	208.6
150°	145.3	145.7	148.6	153.2	158.2	164.6	172.8	180.3	188.9	197.1	206.1
152.5°	150.0	150.0	152.8	156.8	161.1	167.1	173.9	181.1	187.8	195.3	203.2
155°	154.6	154.6	156.8	160.3	164.3	169.3	175.3	181.1	187.1	193.2	200.3
157.5°	158.2	158.6	160.3	163.6	167.1	171.1	176.1	181.4	186.1	191.4	197.1
160°	162.5	162.5	163.9	166.8	169.3	172.8	177.1	181.4	185.3	189.3	193.9
162.5°	165.7	165.7	166.8	168.9	171.1	173.9	177.5	181.1	183.9	187.1	190.7
165°	168.9	168.6	169.3	171.1	172.5	175.0	177.8	180.3	182.5	185.0	187.8
167.5°	171.4	171.1	171.4	172.8	173.9	175.7	177.8	180.0	181.1	182.8	185.0
170°	173.6	172.8	173.2	174.3	175.0	175.7	177.5	178.9	179.6	180.7	182.5
172.5°	175.0	174.6	174.6	175.3	175.7	176.1	177.5	178.6	178.6	178.9	180.0
175°	176.1	175.7	175.3	176.1	176.1	176.4	177.1	177.8	177.5	177.5	178.2
177.5°	176.8	176.4	176.1	176.4	176.4	176.4	176.8	177.5	176.8	176.4	176.8
180°	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4

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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°	8.9	9.3	9.6	10.4	10.0	10.4	10.7	10.4
92.5°	35.4	27.5	23.9	21.4	20.7	19.3	19.6	18.9
95°	128.6	87.1	68.2	55.4	48.6	45.4	42.9	41.4
97.5°	295.3	222.8	175.7	135.0	111.1	97.5	88.9	85.0
100°	421.0	392.1	350.3	299.6	263.6	237.5	223.6	223.9
102.5°	462.8	468.9	448.9	421.4	395.3	376.0	365.0	354.6
105°	464.3	500.0	506.8	497.5	481.0	467.5	456.0	454.3
107.5°	442.8	498.9	526.7	536.4	534.2	527.8	523.2	519.3
110°	409.3	475.0	520.0	545.0	555.0	557.8	557.1	556.4

TEST NUMBER: P1007539

CATALOG NUMBER: S123IP-B365UB2750-4F0-XX-W2A-4_3500K

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	376.0	443.5	495.3	529.2	549.6	560.0	563.5	563.9
115°	347.5	409.6	462.1	501.0	527.8	543.5	550.7	552.5
117.5°	325.3	380.3	428.5	468.9	496.8	514.3	525.0	527.5
120°	308.6	356.8	399.6	435.7	463.9	483.9	492.5	494.6
122.5°	295.3	337.8	376.8	409.6	433.9	451.4	461.0	463.9
125°	283.9	322.8	357.1	385.7	408.5	424.3	433.2	435.7
127.5°	273.6	308.9	340.3	366.8	387.5	401.0	409.3	411.4
130°	263.9	296.1	325.0	349.3	368.2	381.0	388.5	391.4
132.5°	255.0	283.9	310.3	333.2	350.7	363.5	370.0	371.8
135°	247.1	272.5	295.7	316.0	333.5	344.3	350.7	353.2
137.5°	239.6	261.1	281.8	300.0	315.0	326.0	331.4	333.5
140°	233.2	251.4	268.6	283.9	297.5	307.5	313.2	312.8
142.5°	227.1	242.1	256.4	269.3	280.3	288.9	293.9	293.6
145°	222.5	234.3	245.7	256.1	265.0	272.5	275.3	276.1
147.5°	218.6	228.2	237.8	245.3	252.5	257.8	260.7	261.1
150°	214.3	222.5	230.0	236.8	242.1	246.1	248.2	248.2
152.5°	210.3	217.1	223.6	228.9	232.8	236.4	237.5	237.5
155°	206.4	212.1	217.5	221.8	225.0	227.8	228.6	228.9
157.5°	202.1	207.1	211.4	215.0	217.8	220.0	220.7	220.7
160°	198.6	202.5	206.1	208.6	211.1	213.2	213.2	212.8
162.5°	194.3	197.5	200.7	202.8	204.3	206.1	206.1	205.7
165°	190.7	192.8	195.3	197.1	198.6	200.0	199.6	199.6
167.5°	187.5	189.3	190.7	192.1	192.8	193.9	193.6	193.6
170°	184.3	185.3	186.8	187.5	187.8	188.6	188.2	188.2
172.5°	181.4	182.1	183.2	183.6	183.6	184.3	183.6	183.2
175°	178.9	179.3	180.0	180.0	180.0	180.3	180.0	179.6
177.5°	177.1	177.5	177.8	177.8	177.5	177.8	177.1	177.1
180°	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4

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