

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: P334467

Luminaire Tested: **S122IP-S725U935-4F0-1E-UDD-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334467
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122IP-S725U935-4F0-1E-UDD-4
Description: DEFINE 2 INDIRECT LED LUMINAIRE, BATWING OPTIC
PENDANT MOUNT, 725 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

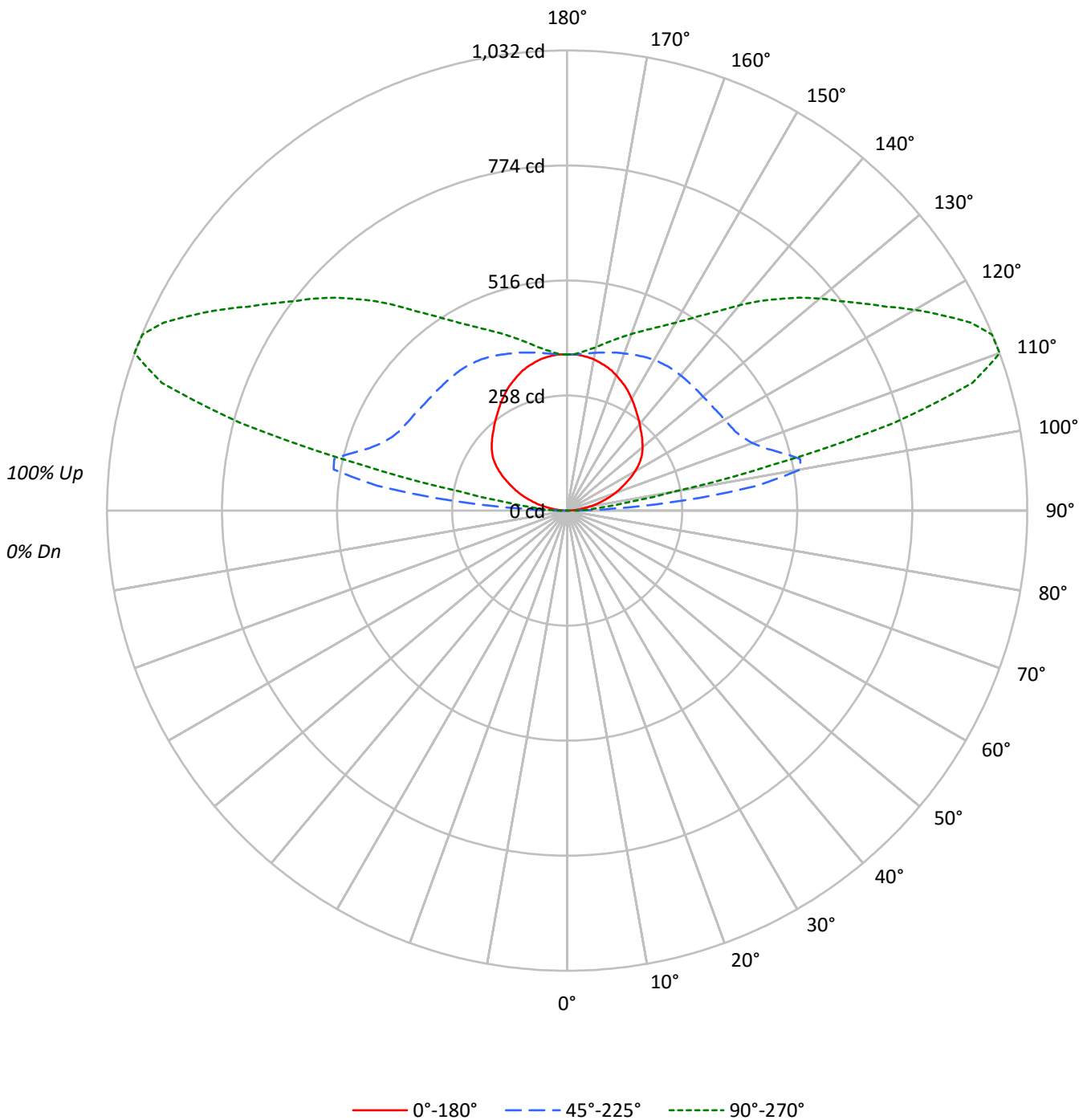
Lumens per Lamp: N/A
Luminaire Lumens: 2439.5 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 26.4
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°	2.2	0.1
90°-100°	136.4	5.6
100°-110°	480.5	19.7
110°-120°	504.6	20.7
120°-130°	415.1	17.0
130°-140°	333.5	13.7
140°-150°	251.9	10.3
150°-160°	177.1	7.3
160°-170°	104.2	4.3
170°-180°	33.9	1.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.2	0.1
90°-120°	1121.5	46.0
90°-150°	2122.0	87.0
90°-180°	2437.0	99.9
0°-180°	2439.5	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	23	22	22	2
95°	24	58	264	100	77	24
105°	82	124	499	891	758	87
115°	145	183	417	861	998	143
125°	202	239	401	698	810	179
135°	237	283	396	586	671	183
145°	271	311	394	490	536	170
155°	308	332	383	433	450	142
165°	335	345	367	389	395	95
175°	349	350	353	357	356	33
180°	350	350	350	350	350	



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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	2.7	5.4	6.7	8.1	10.1	13.5	18.2	22.2	22.9	22.2
92.5°	10.1	14.1	19.5	22.9	28.3	35.7	53.8	79.4	102.3	103.6	86.8
95°	23.6	26.2	33.0	39.0	49.8	66.0	96.9	155.5	233.5	263.8	230.9
97.5°	35.0	39.0	46.4	55.2	67.3	85.5	125.2	206.6	332.5	430.1	433.4
100°	51.8	53.8	59.9	70.7	84.1	103.0	138.6	220.8	366.1	531.7	628.6
102.5°	67.3	68.7	74.7	85.5	99.6	118.5	150.8	221.4	353.3	535.1	701.3
105°	82.1	84.8	89.5	99.6	114.4	133.3	164.9	224.8	335.8	498.7	677.8
107.5°	98.3	100.3	105.0	114.4	129.2	148.1	179.0	232.2	326.4	465.1	628.0
110°	114.4	117.1	121.1	129.9	144.0	163.5	193.2	241.6	323.7	442.2	581.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	129.2	131.9	136.6	144.7	158.2	178.4	206.6	251.7	324.4	427.4	549.2
115°	144.7	148.1	152.1	160.2	173.6	191.8	220.8	261.8	327.1	417.3	523.6
117.5°	160.9	163.5	167.6	175.0	187.8	206.6	233.5	272.6	331.1	411.9	506.1
120°	175.7	178.4	182.4	188.5	201.9	220.8	247.0	283.4	335.2	407.2	492.7
122.5°	189.8	191.8	195.9	202.6	216.0	235.6	259.8	292.8	339.9	404.5	481.2
125°	201.9	203.9	208.0	216.0	229.5	248.4	272.6	302.9	344.6	401.1	470.5
127.5°	212.0	214.7	220.1	228.8	241.6	261.1	284.7	312.3	349.3	399.1	460.4
130°	220.8	223.5	230.2	239.6	253.1	271.9	295.5	321.0	354.7	397.8	450.3
132.5°	228.8	232.2	239.6	249.7	263.8	282.7	304.9	329.8	360.1	397.1	442.2
135°	236.9	239.6	247.7	257.8	273.3	292.1	313.6	337.2	364.1	396.4	434.8
137.5°	244.3	247.7	255.8	266.5	282.0	299.5	321.0	343.3	368.2	396.4	429.4
140°	253.1	255.8	263.8	274.6	289.4	306.9	327.1	348.0	370.8	395.8	424.7
142.5°	261.8	263.8	271.2	282.0	296.1	312.3	331.8	352.0	372.9	395.8	420.0
145°	270.6	273.3	280.0	290.1	303.5	318.4	336.5	355.4	374.2	394.4	415.9
147.5°	280.0	282.0	288.7	298.2	309.6	323.1	340.6	357.4	374.9	392.4	411.9
150°	289.4	291.4	296.8	305.6	315.7	327.8	343.3	358.7	374.2	390.4	406.5
152.5°	298.8	299.5	304.9	312.3	321.7	332.5	345.9	359.4	372.9	387.0	401.8
155°	307.6	308.3	312.3	319.7	327.1	337.2	348.6	360.1	371.5	383.0	395.8
157.5°	315.0	315.7	319.0	325.8	331.8	340.6	350.7	360.1	368.8	378.9	390.4
160°	322.4	323.1	325.8	331.1	336.5	343.9	352.0	360.1	366.8	374.9	384.3
162.5°	329.8	329.1	331.8	335.8	340.6	345.9	352.7	359.4	364.8	371.5	378.9
165°	335.2	334.5	335.8	339.9	343.3	347.3	353.3	358.1	362.1	366.8	372.9
167.5°	339.9	339.2	340.6	343.3	345.9	348.6	353.3	357.4	359.4	362.8	366.8
170°	344.6	343.3	343.9	345.9	347.3	349.3	352.7	356.0	357.4	359.4	362.1
172.5°	347.3	346.6	345.9	348.0	348.6	350.0	352.0	354.0	354.7	355.4	357.4
175°	349.3	348.6	348.0	349.3	349.3	350.0	351.3	352.7	352.0	352.7	353.3
177.5°	350.7	349.3	348.6	350.0	350.0	350.0	350.7	352.0	350.7	350.0	350.7
180°	350.0	350.0	350.0	350.0	350.0	350.0	350.0	350.0	350.0	350.0	350.0



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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°	21.5	20.2	21.5	22.2	22.2	22.2	22.2	22.2
92.5°	68.0	57.9	50.5	45.1	44.4	41.7	42.4	41.1
95°	176.3	135.3	107.0	92.2	83.5	78.1	76.1	76.7
97.5°	360.8	288.1	220.1	179.7	153.5	140.0	132.6	128.6
100°	614.5	531.0	438.8	357.4	301.5	272.6	253.1	241.0
102.5°	780.7	778.0	716.8	629.3	567.4	512.9	487.3	469.8
105°	817.7	893.8	902.6	880.3	838.6	796.9	767.9	758.5
107.5°	778.0	891.1	957.1	984.0	983.3	977.3	968.5	953.0
110°	723.5	844.0	930.1	985.3	1014.3	1027.1	1033.1	1032.5



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CATALOG NUMBER: S122IP-S725U935-4F0-1E-UDD-4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	673.7	788.1	881.7	947.0	990.0	1013.6	1026.4	1031.1
115°	634.7	738.3	826.5	895.8	943.6	974.6	992.1	998.1
117.5°	602.4	695.3	777.4	843.3	892.5	925.4	943.6	948.3
120°	579.5	662.9	734.3	795.5	842.7	874.3	893.8	900.5
122.5°	561.3	636.0	702.7	756.5	797.6	828.5	845.3	850.7
125°	543.8	613.1	672.4	722.9	761.9	787.5	804.3	809.7
127.5°	526.3	590.3	646.8	693.9	728.2	752.5	767.3	771.3
130°	509.5	567.4	620.5	665.0	697.9	720.8	734.3	739.7
132.5°	493.3	545.8	593.6	634.7	667.0	689.9	702.0	706.7
135°	478.5	523.0	567.4	605.1	634.0	656.2	668.3	671.0
137.5°	466.4	504.8	541.1	574.8	602.4	621.9	632.7	636.7
140°	455.0	487.3	518.2	547.9	569.4	586.9	597.0	601.0
142.5°	445.6	471.8	497.4	520.9	541.1	556.6	565.4	565.4
145°	436.8	459.0	479.9	499.4	515.6	527.0	533.7	535.7
147.5°	430.1	448.2	465.1	479.9	494.0	503.4	508.1	509.5
150°	422.7	437.5	451.6	463.7	473.8	481.9	485.9	486.6
152.5°	415.3	428.7	440.2	450.3	457.7	464.4	467.1	467.1
155°	408.5	419.3	429.4	436.8	444.2	448.9	451.6	450.3
157.5°	400.5	409.9	418.6	424.7	430.1	434.1	435.5	435.5
160°	393.1	400.5	407.9	412.6	417.3	420.7	421.3	421.3
162.5°	385.7	391.7	397.8	401.1	405.8	407.9	408.5	407.9
165°	378.3	383.0	387.7	390.4	393.1	395.8	395.8	395.1
167.5°	370.8	374.9	378.3	380.9	382.3	383.6	383.6	383.0
170°	365.5	367.5	370.2	371.5	372.2	374.2	373.5	372.2
172.5°	359.4	360.8	362.8	363.4	364.1	364.8	364.1	363.4
175°	355.4	356.0	356.7	357.4	357.4	358.1	357.4	356.0
177.5°	352.0	352.0	352.7	352.7	352.7	352.7	352.0	350.7
180°	350.0	350.0	350.0	350.0	350.0	350.0	350.0	350.0

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