

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: P334993

Luminaire Tested: **S125IP-S1035U935-4F0-1E-UDD-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334993
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-S1035U935-4F0-1E-UDD-4
Description: DEFINE 5 INDIRECT LED LUMINAIRE, BATWING OPTIC
PENDANT MOUNT, 1035 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3203.8 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Indirect

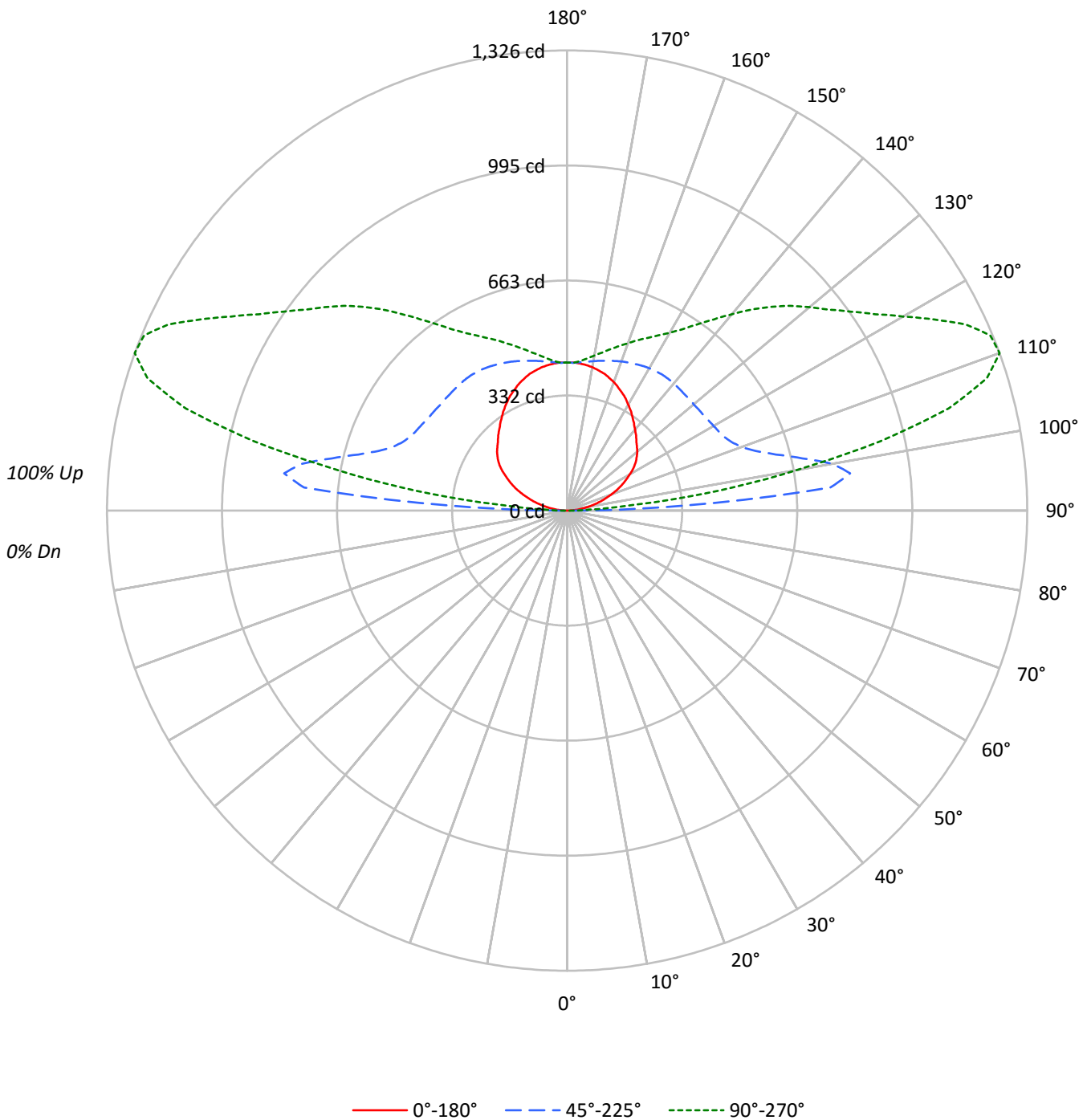
Input Watts (W): 35.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1.7	0.1
90°-100°	310.1	9.7
100°-110°	668.7	20.9
110°-120°	623.4	19.5
120°-130°	505.0	15.8
130°-140°	405.5	12.7
140°-150°	305.8	9.5
150°-160°	215.4	6.7
160°-170°	126.9	4.0
170°-180°	41.3	1.3
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.7	0.1
90°-120°	1602.3	50.0
90°-150°	2818.5	88.0
90°-180°	3202.0	99.9
0°-180°	3203.8	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	14	18	20	2
95°	28	84	762	346	202	30
105°	97	136	623	1227	1139	102
115°	174	209	500	1078	1269	171
125°	241	282	480	858	1000	214
135°	282	339	476	719	830	219
145°	328	376	478	595	655	206
155°	375	403	466	526	549	173
165°	409	420	447	474	481	115
175°	426	426	429	434	432	40
180°	426	426	426	426	426	



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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	1.7	3.4	5.2	6.9	8.6	9.5	11.2	12.0	13.8	14.6
92.5°	12.9	15.5	24.1	37.0	55.0	86.0	144.4	242.4	349.0	342.9	276.8
95°	28.4	29.2	36.1	45.6	64.5	103.1	195.1	384.2	621.4	761.5	745.2
97.5°	43.8	44.7	49.9	59.3	76.5	104.9	168.5	313.7	569.9	822.6	930.9
100°	60.2	61.9	65.3	74.8	91.1	116.9	166.7	278.5	495.1	776.1	991.0
102.5°	78.2	79.1	81.7	92.0	106.6	131.5	174.5	263.9	438.4	694.5	954.9
105°	97.1	97.1	101.4	110.0	123.8	147.8	185.7	262.2	405.7	623.1	869.8
107.5°	115.2	116.9	121.2	128.1	142.7	164.2	201.1	268.2	388.5	569.9	789.0
110°	134.9	136.7	140.1	147.8	160.7	183.1	218.3	277.6	381.6	534.6	722.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	154.7	156.4	159.0	166.7	179.6	201.1	234.6	289.7	381.6	514.0	672.1
115°	173.6	175.3	177.9	185.7	198.5	220.0	251.8	301.7	384.2	500.2	638.6
117.5°	190.8	193.4	196.0	203.7	218.3	238.9	269.0	315.4	388.5	492.5	616.3
120°	208.0	210.6	214.0	221.8	236.4	257.9	287.9	329.2	395.4	487.3	598.2
122.5°	226.1	227.8	230.3	238.1	254.4	275.9	306.0	344.7	401.4	483.0	582.8
125°	240.7	242.4	246.7	254.4	270.7	293.1	321.5	358.4	408.3	479.6	569.0
127.5°	252.7	255.3	260.4	269.9	287.1	309.4	336.9	371.3	416.0	477.9	556.1
130°	263.9	266.4	273.3	284.5	302.5	324.9	351.5	384.2	422.9	476.2	543.2
132.5°	272.5	275.9	284.5	297.4	316.3	338.6	365.3	395.4	430.6	476.2	532.9
135°	281.9	285.4	295.7	309.4	327.5	350.7	377.3	405.7	437.5	476.2	525.2
137.5°	294.0	296.5	306.0	319.7	337.8	361.9	385.9	413.4	444.4	477.0	517.4
140°	304.3	306.8	317.2	330.9	347.2	370.5	395.4	421.2	448.7	477.9	512.3
142.5°	316.3	318.0	327.5	341.2	356.7	378.2	401.4	425.5	451.2	478.7	508.0
145°	328.3	330.1	338.6	350.7	366.2	385.9	408.3	429.8	453.0	477.9	503.7
147.5°	341.2	342.1	349.8	361.0	374.7	392.8	412.6	432.3	453.8	476.2	499.4
150°	352.4	354.1	360.1	371.3	383.3	398.0	416.9	434.9	453.8	473.6	494.2
152.5°	364.4	365.3	370.5	379.9	391.1	404.0	421.2	436.6	453.0	470.2	488.2
155°	374.7	374.7	379.9	388.5	397.1	409.1	423.7	437.5	451.2	465.9	481.3
157.5°	384.2	384.2	388.5	396.2	404.0	413.4	426.3	438.4	449.5	461.6	475.3
160°	393.7	392.8	396.2	402.3	409.1	416.9	428.0	438.4	446.9	457.3	467.6
162.5°	401.4	400.5	404.0	409.1	414.3	420.3	429.8	437.5	444.4	452.1	460.7
165°	409.1	407.4	410.0	414.3	417.7	422.9	429.8	436.6	441.8	446.9	453.8
167.5°	414.3	413.4	415.1	417.7	420.3	423.7	429.8	434.9	437.5	441.8	446.9
170°	419.4	418.6	419.4	421.2	422.9	425.5	429.8	433.2	434.9	437.5	440.9
172.5°	422.9	421.2	422.0	423.7	424.6	425.5	428.9	431.5	431.5	432.3	434.9
175°	425.5	423.7	424.6	425.5	425.5	425.5	428.0	429.8	428.9	428.9	429.8
177.5°	427.2	425.5	425.5	426.3	425.5	425.5	427.2	428.0	426.3	426.3	427.2
180°	426.3	426.3	426.3	426.3	426.3	426.3	426.3	426.3	426.3	426.3	426.3



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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°	15.5	16.3	17.2	18.9	18.9	18.9	19.8	19.8
92.5°	186.5	134.1	99.7	83.4	69.6	67.0	65.3	63.6
95°	618.0	487.3	381.6	309.4	248.4	222.6	215.7	202.0
97.5°	886.2	782.2	675.6	572.4	520.9	476.2	453.0	442.6
100°	1057.2	1015.1	926.6	837.2	777.9	716.0	684.2	670.4
102.5°	1114.8	1157.8	1126.8	1073.5	1009.1	969.5	934.3	924.8
105°	1076.1	1193.9	1231.7	1222.2	1194.7	1166.4	1149.2	1138.9
107.5°	997.0	1152.6	1243.7	1281.5	1289.3	1285.0	1276.4	1267.8
110°	907.6	1071.0	1192.1	1265.2	1303.9	1320.2	1326.2	1326.2



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	837.2	990.2	1113.1	1202.5	1263.5	1294.4	1311.6	1319.4
115°	780.4	913.7	1031.4	1125.1	1192.1	1233.4	1257.5	1268.6
117.5°	740.9	858.7	961.8	1050.3	1118.2	1161.2	1185.3	1192.1
120°	710.0	813.1	907.6	983.3	1046.9	1088.1	1111.4	1118.2
122.5°	686.8	780.4	862.1	931.7	986.7	1023.7	1046.9	1052.9
125°	664.4	752.1	826.9	888.7	936.9	972.1	991.0	999.6
127.5°	641.2	724.6	795.0	853.5	897.3	929.1	947.2	950.6
130°	619.7	695.3	762.4	818.3	861.2	889.6	906.8	911.9
132.5°	598.2	667.8	727.1	780.4	823.4	851.8	867.2	873.3
135°	580.2	639.5	694.5	743.5	781.3	809.7	825.1	830.3
137.5°	563.8	613.7	661.0	703.9	738.3	765.0	779.6	785.6
140°	550.9	591.3	630.9	667.0	698.8	721.1	734.0	738.3
142.5°	539.8	572.4	605.1	635.2	661.0	679.0	691.0	694.5
145°	530.3	557.0	583.6	606.8	627.4	642.1	651.5	654.9
147.5°	520.9	543.2	564.7	582.8	599.9	612.0	618.0	619.7
150°	513.1	532.0	548.4	563.8	576.7	587.0	590.5	591.3
152.5°	504.5	520.9	535.5	546.7	557.0	564.7	568.1	569.0
155°	495.9	509.7	521.7	531.2	539.8	545.8	548.4	549.2
157.5°	487.3	499.4	508.8	516.6	523.4	528.6	531.2	531.2
160°	478.7	487.3	495.9	502.0	508.0	512.3	514.0	513.1
162.5°	469.3	477.0	483.9	489.1	493.4	496.8	496.8	496.8
165°	460.7	466.7	471.9	476.2	479.6	481.3	481.3	481.3
167.5°	452.1	456.4	460.7	464.1	465.9	467.6	466.7	466.7
170°	445.2	447.8	450.4	452.1	453.8	454.7	454.7	453.8
172.5°	437.5	440.1	441.8	442.6	442.6	444.4	442.6	441.8
175°	432.3	432.3	434.1	434.1	434.1	434.9	433.2	432.3
177.5°	428.0	428.9	428.9	428.9	428.0	428.9	426.3	426.3
180°	426.3	426.3	426.3	426.3	426.3	426.3	426.3	426.3

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