

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: P334468

Luminaire Tested: **S122IP-S925U935-4F0-1E-UDD-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334468
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-S925U935-4F0-1E-UDD-4
Description: DEFINE 2 INDIRECT LED LUMINAIRE, BATWING OPTIC
PENDANT MOUNT, 925 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

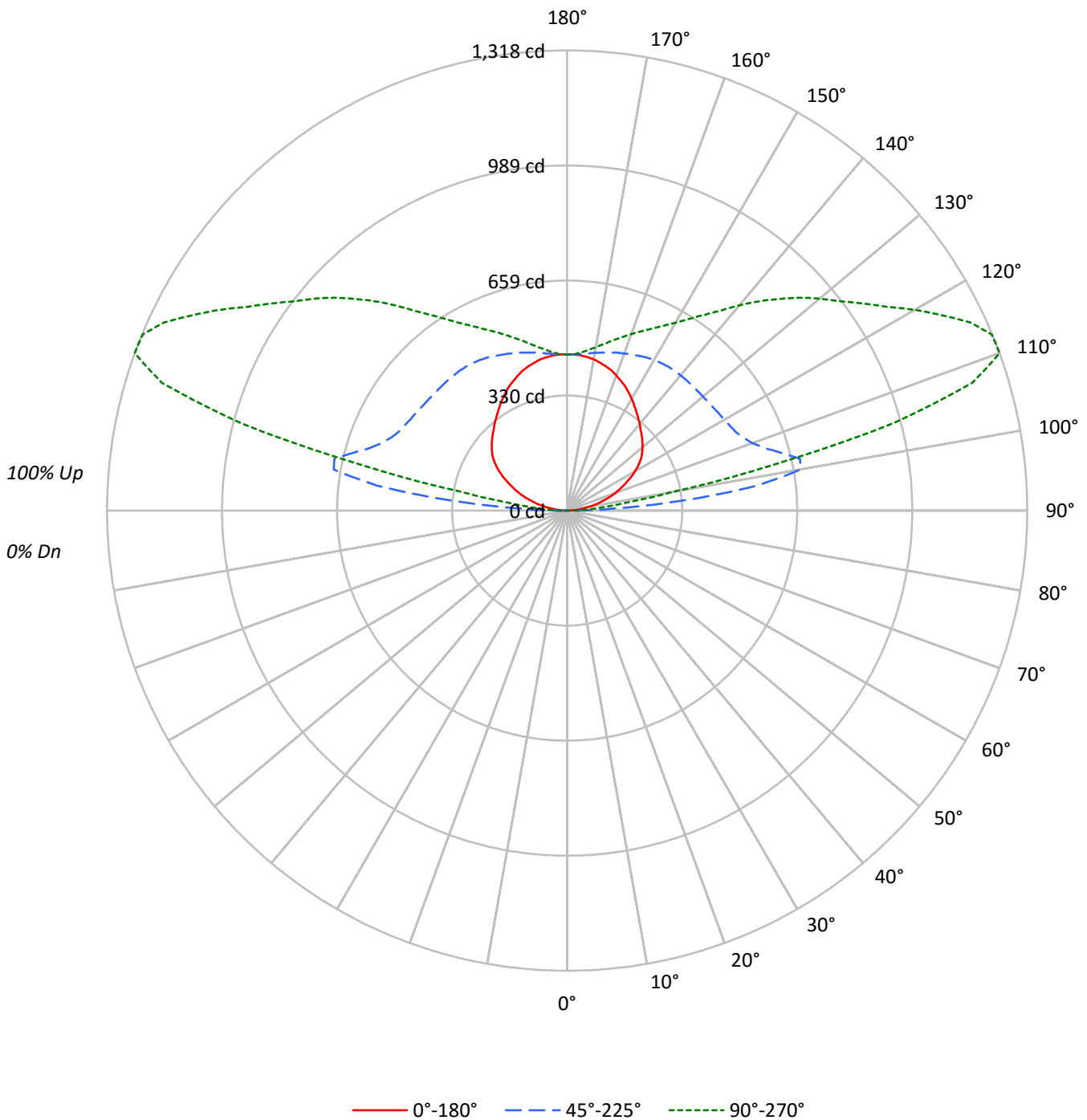
Lumens per Lamp: N/A
Luminaire Lumens: 3114.7 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 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°	2.9	0.1
90°-100°	174.2	5.6
100°-110°	613.4	19.7
110°-120°	644.2	20.7
120°-130°	530.0	17.0
130°-140°	425.8	13.7
140°-150°	321.6	10.3
150°-160°	226.1	7.3
160°-170°	133.1	4.3
170°-180°	43.3	1.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.9	0.1
90°-120°	1431.9	46.0
90°-150°	2709.3	87.0
90°-180°	3112.0	99.9
0°-180°	3114.7	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	12	29	28	28	2
95°	30	74	337	127	98	31
105°	105	158	637	1138	968	111
115°	185	233	533	1099	1274	183
125°	258	305	512	891	1034	229
135°	302	361	506	748	857	234
145°	345	397	504	625	684	217
155°	393	424	489	553	575	181
165°	428	441	468	497	504	121
175°	446	446	450	456	455	42
180°	447	447	447	447	447	



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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	3.4	6.9	8.6	10.3	12.9	17.2	23.2	28.4	29.2	28.4
92.5°	12.9	18.0	24.9	29.2	36.1	45.5	68.7	101.4	130.6	132.3	110.8
95°	30.1	33.5	42.1	49.8	63.6	84.2	123.7	198.5	298.2	336.8	294.7
97.5°	44.7	49.8	59.3	70.5	85.9	109.1	159.8	263.8	424.5	549.1	553.4
100°	66.2	68.7	76.5	90.2	107.4	131.5	177.0	281.9	467.5	678.8	802.6
102.5°	85.9	87.6	95.4	109.1	127.2	151.2	192.5	282.7	451.1	683.1	895.4
105°	104.8	108.3	114.3	127.2	146.1	170.1	210.5	287.0	428.8	636.7	865.3
107.5°	125.5	128.0	134.1	146.1	165.0	189.0	228.6	296.5	416.8	593.8	801.7
110°	146.1	149.5	154.7	165.8	183.9	208.8	246.6	308.5	413.3	564.6	742.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	165.0	168.4	174.4	184.7	201.9	227.7	263.8	321.4	414.2	545.7	701.2
115°	184.7	189.0	194.2	204.5	221.7	244.9	281.9	334.3	417.6	532.8	668.5
117.5°	205.4	208.8	214.0	223.4	239.7	263.8	298.2	348.0	422.8	525.9	646.2
120°	224.3	227.7	232.9	240.6	257.8	281.9	315.4	361.8	427.9	519.9	629.0
122.5°	242.3	244.9	250.1	258.6	275.8	300.8	331.7	373.8	433.9	516.4	614.4
125°	257.8	260.4	265.5	275.8	293.0	317.1	348.0	386.7	440.0	512.1	600.7
127.5°	270.7	274.1	281.0	292.2	308.5	333.4	363.5	398.7	446.0	509.6	587.8
130°	281.9	285.3	293.9	305.9	323.1	347.2	377.2	409.9	452.9	507.8	574.9
132.5°	292.2	296.5	305.9	318.8	336.8	360.9	389.3	421.1	459.7	507.0	564.6
135°	302.5	305.9	316.2	329.1	348.9	372.9	400.4	430.5	464.9	506.1	555.1
137.5°	311.9	316.2	326.5	340.3	360.0	382.4	409.9	438.2	470.0	506.1	548.2
140°	323.1	326.5	336.8	350.6	369.5	391.8	417.6	444.3	473.5	505.3	542.2
142.5°	334.3	336.8	346.3	360.0	378.1	398.7	423.6	449.4	476.1	505.3	536.2
145°	345.4	348.9	357.5	370.4	387.5	406.4	429.7	453.7	477.8	503.6	531.0
147.5°	357.5	360.0	368.6	380.7	395.3	412.5	434.8	456.3	478.6	501.0	525.9
150°	369.5	372.1	379.0	390.1	403.0	418.5	438.2	458.0	477.8	498.4	519.0
152.5°	381.5	382.4	389.3	398.7	410.7	424.5	441.7	458.9	476.1	494.1	513.0
155°	392.7	393.6	398.7	408.2	417.6	430.5	445.1	459.7	474.3	488.9	505.3
157.5°	402.2	403.0	407.3	415.9	423.6	434.8	447.7	459.7	470.9	483.8	498.4
160°	411.6	412.5	415.9	422.8	429.7	439.1	449.4	459.7	468.3	478.6	490.7
162.5°	421.1	420.2	423.6	428.8	434.8	441.7	450.3	458.9	465.7	474.3	483.8
165°	427.9	427.1	428.8	433.9	438.2	443.4	451.1	457.1	462.3	468.3	476.1
167.5°	433.9	433.1	434.8	438.2	441.7	445.1	451.1	456.3	458.9	463.2	468.3
170°	440.0	438.2	439.1	441.7	443.4	446.0	450.3	454.6	456.3	458.9	462.3
172.5°	443.4	442.5	441.7	444.3	445.1	446.8	449.4	452.0	452.9	453.7	456.3
175°	446.0	445.1	444.3	446.0	446.0	446.8	448.6	450.3	449.4	450.3	451.1
177.5°	447.7	446.0	445.1	446.8	446.8	446.8	447.7	449.4	447.7	446.8	447.7
180°	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8



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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°	27.5	25.8	27.5	28.4	28.4	28.4	28.4	28.4
92.5°	86.8	73.9	64.4	57.6	56.7	53.3	54.1	52.4
95°	225.1	172.7	136.6	117.7	106.6	99.7	97.1	98.0
97.5°	460.6	367.8	281.0	229.4	195.9	178.7	169.3	164.1
100°	784.5	678.0	560.3	456.3	385.0	348.0	323.1	307.6
102.5°	996.8	993.4	915.2	803.4	724.4	654.8	622.1	599.8
105°	1044.1	1141.2	1152.3	1124.0	1070.7	1017.4	980.5	968.4
107.5°	993.4	1137.7	1221.9	1256.3	1255.4	1247.7	1236.5	1216.8
110°	923.7	1077.6	1187.6	1258.0	1295.0	1311.3	1319.0	1318.2



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	860.2	1006.2	1125.7	1209.0	1264.0	1294.1	1310.4	1316.5
115°	810.3	942.7	1055.2	1143.7	1204.7	1244.3	1266.6	1274.3
117.5°	769.1	887.7	992.5	1076.7	1139.4	1181.5	1204.7	1210.8
120°	739.9	846.4	937.5	1015.7	1075.8	1116.2	1141.2	1149.7
122.5°	716.7	812.0	897.1	965.9	1018.3	1057.8	1079.3	1086.2
125°	694.3	782.8	858.4	922.9	972.7	1005.4	1026.9	1033.7
127.5°	672.0	753.6	825.8	885.9	929.8	960.7	979.6	984.8
130°	650.5	724.4	792.3	849.0	891.1	920.3	937.5	944.4
132.5°	629.9	696.9	757.9	810.3	851.6	880.8	896.3	902.3
135°	611.0	667.7	724.4	772.5	809.5	837.8	853.3	856.7
137.5°	595.5	644.5	690.9	733.8	769.1	794.0	807.7	812.9
140°	580.9	622.1	661.7	699.5	727.0	749.3	762.2	767.4
142.5°	568.9	602.4	635.0	665.1	690.9	710.6	721.8	721.8
145°	557.7	586.0	612.7	637.6	658.2	672.8	681.4	684.0
147.5°	549.1	572.3	593.8	612.7	630.7	642.8	648.8	650.5
150°	539.6	558.5	576.6	592.1	604.9	615.3	620.4	621.3
152.5°	530.2	547.4	562.0	574.9	584.3	592.9	596.4	596.4
155°	521.6	535.3	548.2	557.7	567.1	573.2	576.6	574.9
157.5°	511.3	523.3	534.5	542.2	549.1	554.2	556.0	556.0
160°	501.8	511.3	520.7	526.8	532.8	537.1	537.9	537.9
162.5°	492.4	500.1	507.8	512.1	518.2	520.7	521.6	520.7
165°	482.9	488.9	495.0	498.4	501.8	505.3	505.3	504.4
167.5°	473.5	478.6	482.9	486.4	488.1	489.8	489.8	488.9
170°	466.6	469.2	472.6	474.3	475.2	477.8	476.9	475.2
172.5°	458.9	460.6	463.2	464.0	464.9	465.7	464.9	464.0
175°	453.7	454.6	455.4	456.3	456.3	457.1	456.3	454.6
177.5°	449.4	449.4	450.3	450.3	450.3	450.3	449.4	447.7
180°	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8

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