

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: P334458

Luminaire Tested: **S122IP-S925U927-4F0-1E-UDD-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334458
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-S925U927-4F0-1E-UDD-4
Description: DEFINE 2 INDIRECT LED LUMINAIRE, BATWING OPTIC
PENDANT MOUNT, 925 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2865.7 lumens
Efficiency: N/A
Efficacy: 81.6 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Indirect

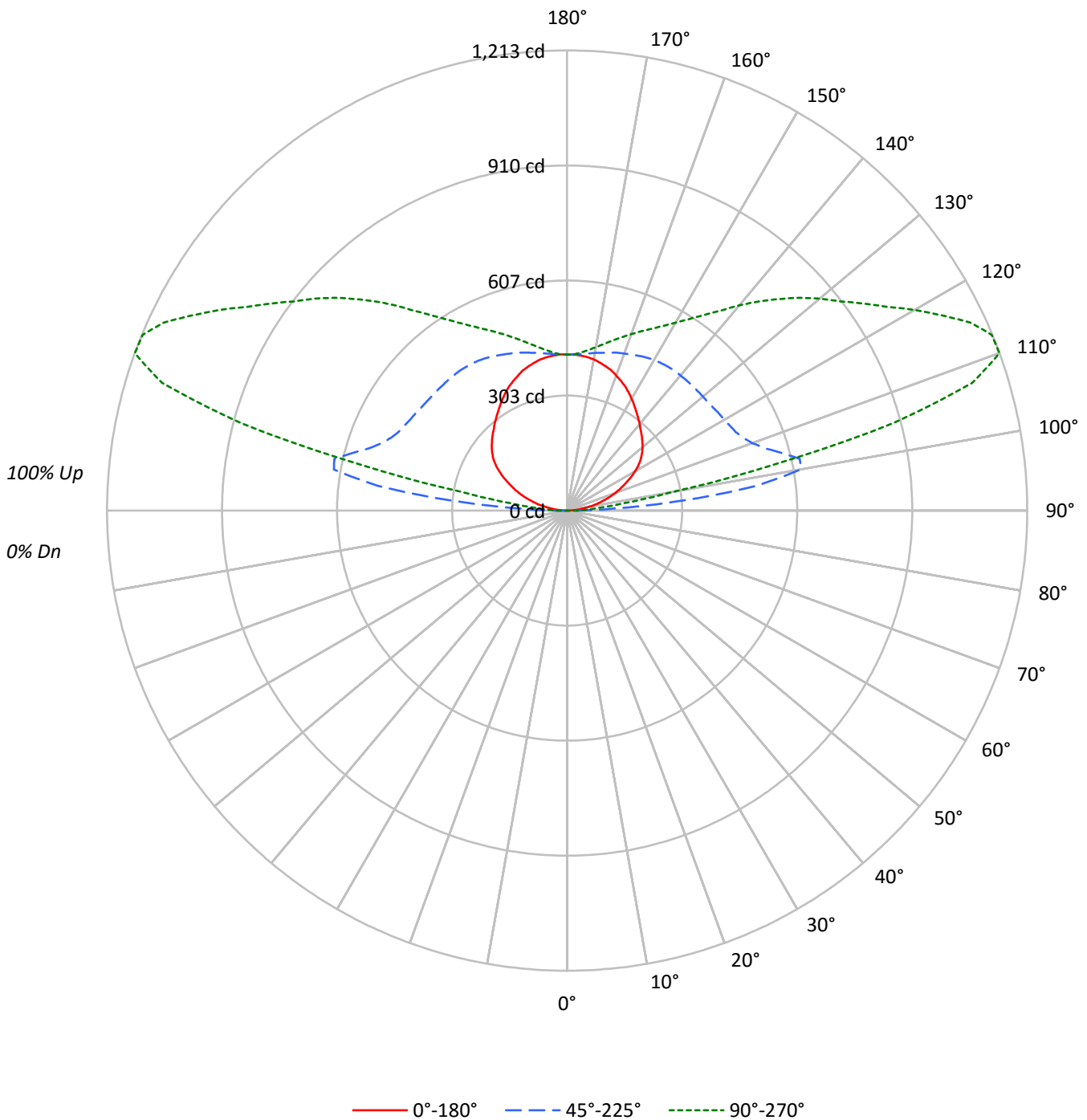
Input Watts (W): 35.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2.6	0.1
90°-100°	160.3	5.6
100°-110°	564.4	19.7
110°-120°	592.8	20.7
120°-130°	487.7	17.0
130°-140°	391.8	13.7
140°-150°	295.9	10.3
150°-160°	208.0	7.3
160°-170°	122.5	4.3
170°-180°	39.8	1.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.6	0.1
90°-120°	1317.4	46.0
90°-150°	2492.8	87.0
90°-180°	2863.0	99.9
0°-180°	2865.7	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	11	27	26	26	2
95°	28	68	310	117	90	29
105°	96	145	586	1047	891	103
115°	170	215	490	1012	1172	169
125°	237	281	471	819	951	211
135°	278	332	466	689	788	215
145°	318	365	463	575	629	199
155°	361	390	450	509	529	166
165°	394	406	431	457	464	111
175°	410	411	414	419	418	39
180°	411	411	411	411	411	



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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°	0.8	3.2	6.3	7.9	9.5	11.9	15.8	21.3	26.1	26.9	26.1
92.5°	11.9	16.6	22.9	26.9	33.2	41.9	63.2	93.3	120.2	121.8	102.0
95°	27.7	30.8	38.7	45.9	58.5	77.5	113.8	182.6	274.3	309.9	271.2
97.5°	41.1	45.9	54.6	64.8	79.1	100.4	147.1	242.7	390.6	505.2	509.2
100°	60.9	63.2	70.4	83.0	98.8	121.0	162.9	259.3	430.1	624.6	738.4
102.5°	79.1	80.6	87.8	100.4	117.0	139.1	177.1	260.1	415.1	628.5	823.8
105°	96.5	99.6	105.2	117.0	134.4	156.5	193.7	264.1	394.5	585.8	796.2
107.5°	115.4	117.8	123.3	134.4	151.8	173.9	210.3	272.8	383.5	546.3	737.6
110°	134.4	137.6	142.3	152.6	169.2	192.1	226.9	283.8	380.3	519.4	683.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	151.8	155.0	160.5	170.0	185.8	209.5	242.7	295.7	381.1	502.0	645.1
115°	170.0	173.9	178.7	188.2	204.0	225.3	259.3	307.6	384.2	490.2	615.1
117.5°	189.0	192.1	196.9	205.6	220.6	242.7	274.3	320.2	389.0	483.9	594.5
120°	206.4	209.5	214.3	221.4	237.2	259.3	290.2	332.9	393.7	478.3	578.7
122.5°	223.0	225.3	230.1	238.0	253.8	276.7	305.2	343.9	399.3	475.2	565.3
125°	237.2	239.6	244.3	253.8	269.6	291.7	320.2	355.8	404.8	471.2	552.6
127.5°	249.0	252.2	258.5	268.8	283.8	306.8	334.4	366.8	410.3	468.8	540.8
130°	259.3	262.5	270.4	281.5	297.3	319.4	347.1	377.1	416.7	467.3	528.9
132.5°	268.8	272.8	281.5	293.3	309.9	332.1	358.2	387.4	423.0	466.5	519.4
135°	278.3	281.5	290.9	302.8	321.0	343.1	368.4	396.1	427.7	465.7	510.7
137.5°	287.0	290.9	300.4	313.1	331.3	351.8	377.1	403.2	432.5	465.7	504.4
140°	297.3	300.4	309.9	322.6	340.0	360.5	384.2	408.8	435.6	464.9	498.9
142.5°	307.6	309.9	318.6	331.3	347.9	366.8	389.8	413.5	438.0	464.9	493.3
145°	317.8	321.0	328.9	340.8	356.6	374.0	395.3	417.4	439.6	463.3	488.6
147.5°	328.9	331.3	339.2	350.2	363.7	379.5	400.1	419.8	440.4	460.9	483.9
150°	340.0	342.3	348.7	358.9	370.8	385.0	403.2	421.4	439.6	458.6	477.5
152.5°	351.0	351.8	358.2	366.8	377.9	390.6	406.4	422.2	438.0	454.6	472.0
155°	361.3	362.1	366.8	375.5	384.2	396.1	409.5	423.0	436.4	449.9	464.9
157.5°	370.0	370.8	374.8	382.7	389.8	400.1	411.9	423.0	433.3	445.1	458.6
160°	378.7	379.5	382.7	389.0	395.3	404.0	413.5	423.0	430.9	440.4	451.4
162.5°	387.4	386.6	389.8	394.5	400.1	406.4	414.3	422.2	428.5	436.4	445.1
165°	393.7	392.9	394.5	399.3	403.2	408.0	415.1	420.6	425.4	430.9	438.0
167.5°	399.3	398.5	400.1	403.2	406.4	409.5	415.1	419.8	422.2	426.1	430.9
170°	404.8	403.2	404.0	406.4	408.0	410.3	414.3	418.2	419.8	422.2	425.4
172.5°	408.0	407.2	406.4	408.8	409.5	411.1	413.5	415.9	416.7	417.4	419.8
175°	410.3	409.5	408.8	410.3	410.3	411.1	412.7	414.3	413.5	414.3	415.1
177.5°	411.9	410.3	409.5	411.1	411.1	411.1	411.9	413.5	411.9	411.1	411.9
180°	411.1	411.1	411.1	411.1	411.1	411.1	411.1	411.1	411.1	411.1	411.1



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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°	25.3	23.7	25.3	26.1	26.1	26.1	26.1	26.1
92.5°	79.9	68.0	59.3	53.0	52.2	49.0	49.8	48.2
95°	207.1	158.9	125.7	108.3	98.0	91.7	89.3	90.1
97.5°	423.8	338.4	258.5	211.1	180.3	164.4	155.8	151.0
100°	721.8	623.8	515.5	419.8	354.2	320.2	297.3	283.0
102.5°	917.1	914.0	842.0	739.2	666.5	602.5	572.4	551.9
105°	960.6	1049.9	1060.2	1034.1	985.1	936.1	902.1	891.0
107.5°	914.0	1046.8	1124.3	1155.9	1155.1	1148.0	1137.7	1119.5
110°	849.9	991.4	1092.6	1157.5	1191.5	1206.5	1213.6	1212.8



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	791.4	925.8	1035.7	1112.4	1163.0	1190.7	1205.7	1211.2
115°	745.6	867.3	970.9	1052.3	1108.4	1144.8	1165.4	1172.5
117.5°	707.6	816.7	913.2	990.6	1048.4	1087.1	1108.4	1114.0
120°	680.7	778.8	862.6	934.5	989.9	1027.0	1049.9	1057.8
122.5°	659.4	747.1	825.4	888.7	936.9	973.3	993.0	999.3
125°	638.8	720.3	789.8	849.1	895.0	925.0	944.8	951.1
127.5°	618.3	693.4	759.8	815.1	855.5	883.9	901.3	906.1
130°	598.5	666.5	729.0	781.1	819.9	846.8	862.6	868.9
132.5°	579.5	641.2	697.3	745.6	783.5	810.4	824.6	830.2
135°	562.1	614.3	666.5	710.8	744.8	770.9	785.1	788.2
137.5°	547.9	593.0	635.7	675.2	707.6	730.5	743.2	747.9
140°	534.5	572.4	608.8	643.6	668.9	689.4	701.3	706.0
142.5°	523.4	554.2	584.3	611.9	635.7	653.8	664.1	664.1
145°	513.1	539.2	563.7	586.6	605.6	619.1	627.0	629.3
147.5°	505.2	526.6	546.3	563.7	580.3	591.4	596.9	598.5
150°	496.5	513.9	530.5	544.7	556.6	566.1	570.8	571.6
152.5°	487.8	503.6	517.1	528.9	537.6	545.5	548.7	548.7
155°	479.9	492.6	504.4	513.1	521.8	527.3	530.5	528.9
157.5°	470.4	481.5	491.8	498.9	505.2	509.9	511.5	511.5
160°	461.7	470.4	479.1	484.7	490.2	494.1	494.9	494.9
162.5°	453.0	460.1	467.3	471.2	476.7	479.1	479.9	479.1
165°	444.3	449.9	455.4	458.6	461.7	464.9	464.9	464.1
167.5°	435.6	440.4	444.3	447.5	449.1	450.7	450.7	449.9
170°	429.3	431.7	434.8	436.4	437.2	439.6	438.8	437.2
172.5°	422.2	423.8	426.1	426.9	427.7	428.5	427.7	426.9
175°	417.4	418.2	419.0	419.8	419.8	420.6	419.8	418.2
177.5°	413.5	413.5	414.3	414.3	414.3	414.3	413.5	411.9
180°	411.1	411.1	411.1	411.1	411.1	411.1	411.1	411.1

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