

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: P334992

Luminaire Tested: **S125IP-S810U935-4F0-1E-UDD-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334992
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-S810U935-4F0-1E-UDD-4
Description: DEFINE 5 INDIRECT LED LUMINAIRE, BATWING OPTIC
PENDANT MOUNT, 810 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2509.3 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Indirect

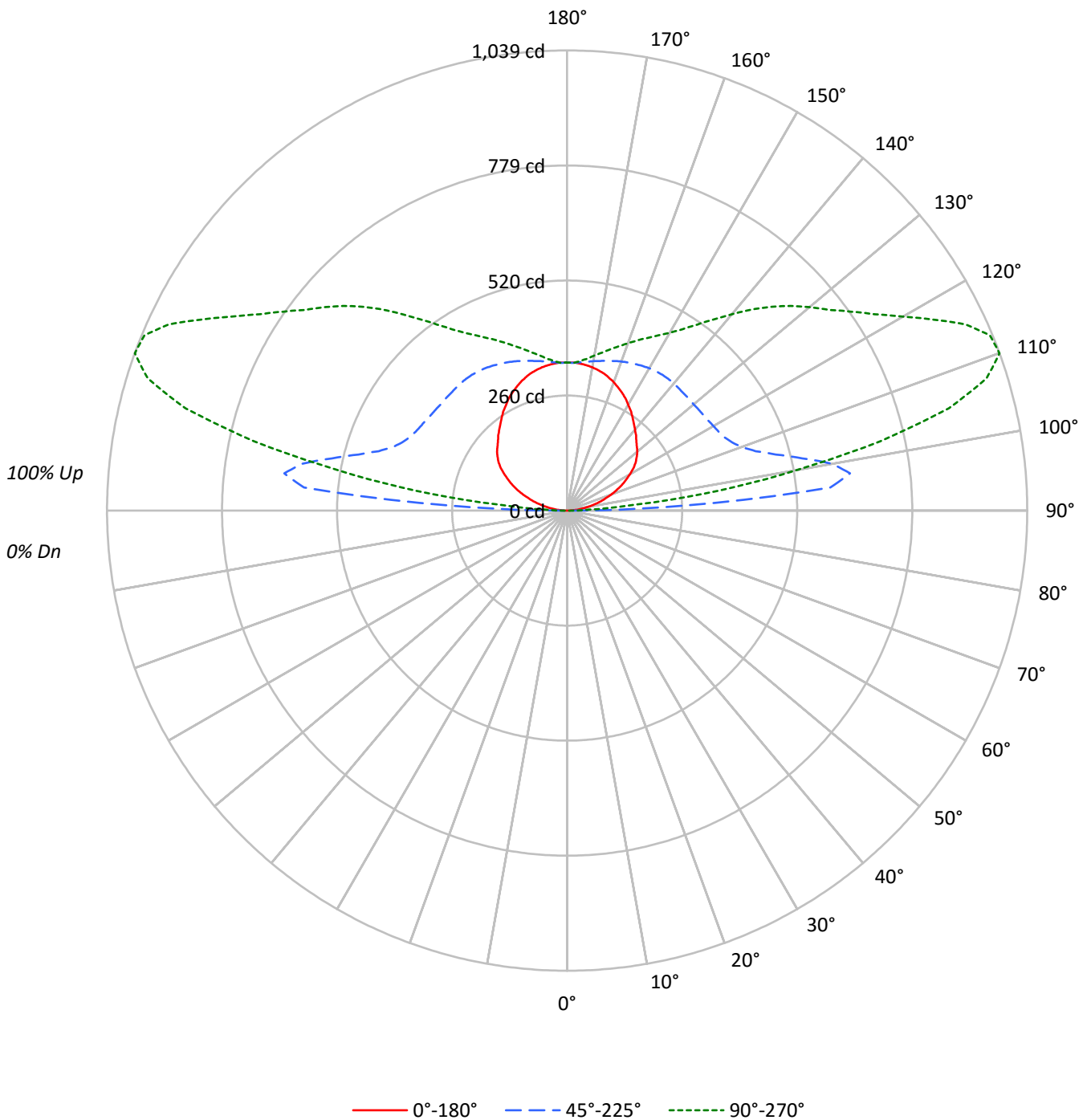
Input Watts (W): 26.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1.3	0.1
90°-100°	242.9	9.7
100°-110°	523.8	20.9
110°-120°	488.3	19.5
120°-130°	395.5	15.8
130°-140°	317.6	12.7
140°-150°	239.5	9.5
150°-160°	168.7	6.7
160°-170°	99.4	4.0
170°-180°	32.3	1.3
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.3	0.1
90°-120°	1255.0	50.0
90°-150°	2207.6	88.0
90°-180°	2508.0	99.9
0°-180°	2509.3	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	6	11	14	16	2
95°	22	66	596	271	158	23
105°	76	106	488	961	892	80
115°	136	164	392	845	994	134
125°	188	221	376	672	783	167
135°	221	266	373	563	650	171
145°	257	295	374	466	513	161
155°	294	316	365	412	430	135
165°	320	329	350	371	377	90
175°	333	333	336	340	339	32
180°	334	334	334	334	334	



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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	1.3	2.7	4.0	5.4	6.7	7.4	8.8	9.4	10.8	11.4
92.5°	10.1	12.1	18.8	28.9	43.1	67.3	113.1	189.8	273.3	268.6	216.8
95°	22.2	22.9	28.3	35.7	50.5	80.8	152.8	300.9	486.7	596.5	583.7
97.5°	34.3	35.0	39.0	46.5	59.9	82.1	131.9	245.7	446.3	644.3	729.1
100°	47.1	48.5	51.2	58.6	71.4	91.6	130.6	218.1	387.8	607.9	776.2
102.5°	61.3	61.9	64.0	72.0	83.5	103.0	136.7	206.7	343.3	544.0	747.9
105°	76.1	76.1	79.4	86.2	96.9	115.8	145.4	205.3	317.8	488.1	681.3
107.5°	90.2	91.6	94.9	100.3	111.8	128.6	157.5	210.0	304.3	446.3	618.0
110°	105.7	107.0	109.7	115.8	125.9	143.4	171.0	217.4	298.9	418.7	565.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	121.2	122.5	124.5	130.6	140.7	157.5	183.8	226.9	298.9	402.6	526.5
115°	136.0	137.3	139.4	145.4	155.5	172.3	197.3	236.3	300.9	391.8	500.2
117.5°	149.5	151.5	153.5	159.6	171.0	187.2	210.7	247.1	304.3	385.7	482.7
120°	162.9	164.9	167.6	173.7	185.1	202.0	225.5	257.8	309.7	381.7	468.6
122.5°	177.1	178.4	180.4	186.5	199.3	216.1	239.7	270.0	314.4	378.3	456.4
125°	188.5	189.8	193.2	199.3	212.1	229.6	251.8	280.7	319.8	375.7	445.7
127.5°	197.9	199.9	204.0	211.4	224.9	242.4	263.9	290.8	325.8	374.3	435.6
130°	206.7	208.7	214.1	222.8	237.0	254.5	275.3	300.9	331.2	373.0	425.5
132.5°	213.4	216.1	222.8	232.9	247.7	265.2	286.1	309.7	337.3	373.0	417.4
135°	220.8	223.5	231.6	242.4	256.5	274.7	295.5	317.8	342.7	373.0	411.3
137.5°	230.2	232.3	239.7	250.4	264.6	283.4	302.3	323.8	348.0	373.6	405.3
140°	238.3	240.3	248.4	259.2	272.0	290.2	309.7	329.9	351.4	374.3	401.2
142.5°	247.7	249.1	256.5	267.3	279.4	296.2	314.4	333.2	353.4	375.0	397.9
145°	257.2	258.5	265.2	274.7	286.8	302.3	319.8	336.6	354.8	374.3	394.5
147.5°	267.3	267.9	274.0	282.7	293.5	307.7	323.1	338.6	355.5	373.0	391.1
150°	276.0	277.4	282.1	290.8	300.3	311.7	326.5	340.6	355.5	370.9	387.1
152.5°	285.4	286.1	290.2	297.6	306.3	316.4	329.9	342.0	354.8	368.2	382.4
155°	293.5	293.5	297.6	304.3	311.0	320.4	331.9	342.7	353.4	364.9	377.0
157.5°	300.9	300.9	304.3	310.4	316.4	323.8	333.9	343.3	352.1	361.5	372.3
160°	308.3	307.7	310.4	315.1	320.4	326.5	335.3	343.3	350.1	358.1	366.2
162.5°	314.4	313.7	316.4	320.4	324.5	329.2	336.6	342.7	348.0	354.1	360.8
165°	320.4	319.1	321.1	324.5	327.2	331.2	336.6	342.0	346.0	350.1	355.5
167.5°	324.5	323.8	325.2	327.2	329.2	331.9	336.6	340.6	342.7	346.0	350.1
170°	328.5	327.9	328.5	329.9	331.2	333.2	336.6	339.3	340.6	342.7	345.4
172.5°	331.2	329.9	330.5	331.9	332.6	333.2	335.9	338.0	338.0	338.6	340.6
175°	333.2	331.9	332.6	333.2	333.2	333.2	335.3	336.6	335.9	335.9	336.6
177.5°	334.6	333.2	333.2	333.9	333.2	333.2	334.6	335.3	333.9	333.9	334.6
180°	333.9	333.9	333.9	333.9	333.9	333.9	333.9	333.9	333.9	333.9	333.9



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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°	12.1	12.8	13.5	14.8	14.8	14.8	15.5	15.5
92.5°	146.1	105.0	78.1	65.3	54.5	52.5	51.2	49.8
95°	484.0	381.7	298.9	242.4	194.6	174.4	169.0	158.2
97.5°	694.1	612.6	529.1	448.4	408.0	373.0	354.8	346.7
100°	828.0	795.1	725.7	655.7	609.3	560.8	535.9	525.1
102.5°	873.2	906.8	882.6	840.8	790.3	759.4	731.8	724.4
105°	842.9	935.1	964.7	957.3	935.8	913.5	900.1	892.0
107.5°	780.9	902.8	974.1	1003.8	1009.8	1006.4	999.7	993.0
110°	710.9	838.8	933.7	991.0	1021.3	1034.1	1038.8	1038.8



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	655.7	775.5	871.8	941.8	989.6	1013.9	1027.3	1033.4
115°	611.3	715.6	807.9	881.2	933.7	966.1	984.9	993.7
117.5°	580.3	672.5	753.3	822.7	875.8	909.5	928.4	933.7
120°	556.1	636.9	710.9	770.2	820.0	852.3	870.5	875.8
122.5°	537.9	611.3	675.2	729.8	772.8	801.8	820.0	824.7
125°	520.4	589.1	647.6	696.1	733.8	761.4	776.2	782.9
127.5°	502.2	567.5	622.7	668.5	702.8	727.7	741.9	744.6
130°	485.4	544.6	597.1	640.9	674.6	696.8	710.2	714.3
132.5°	468.6	523.1	569.5	611.3	644.9	667.2	679.3	684.0
135°	454.4	500.9	544.0	582.3	611.9	634.2	646.3	650.3
137.5°	441.6	480.7	517.7	551.4	578.3	599.2	610.6	615.3
140°	431.5	463.2	494.1	522.4	547.3	564.8	574.9	578.3
142.5°	422.8	448.4	473.9	497.5	517.7	531.8	541.3	544.0
145°	415.4	436.2	457.1	475.3	491.4	502.9	510.3	513.0
147.5°	408.0	425.5	442.3	456.4	469.9	479.3	484.0	485.4
150°	401.9	416.7	429.5	441.6	451.7	459.8	462.5	463.2
152.5°	395.2	408.0	419.4	428.2	436.2	442.3	445.0	445.7
155°	388.4	399.2	408.6	416.0	422.8	427.5	429.5	430.2
157.5°	381.7	391.1	398.5	404.6	410.0	414.0	416.0	416.0
160°	375.0	381.7	388.4	393.2	397.9	401.2	402.6	401.9
162.5°	367.6	373.6	379.0	383.1	386.4	389.1	389.1	389.1
165°	360.8	365.6	369.6	373.0	375.7	377.0	377.0	377.0
167.5°	354.1	357.5	360.8	363.5	364.9	366.2	365.6	365.6
170°	348.7	350.7	352.8	354.1	355.5	356.1	356.1	355.5
172.5°	342.7	344.7	346.0	346.7	346.7	348.0	346.7	346.0
175°	338.6	338.6	340.0	340.0	340.0	340.6	339.3	338.6
177.5°	335.3	335.9	335.9	335.9	335.3	335.9	333.9	333.9
180°	333.9	333.9	333.9	333.9	333.9	333.9	333.9	333.9

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