

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1007320

Luminaire Tested: S122IP-B1080UB27-4F0-XX-W2A-4

Issue Date: 5/5/2025

Test Information

Test Method: LM-79-2019
Report Number: P1007320
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122IP-B1080UB27-4F0-XX-W2A-4
Description: Define 2 Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

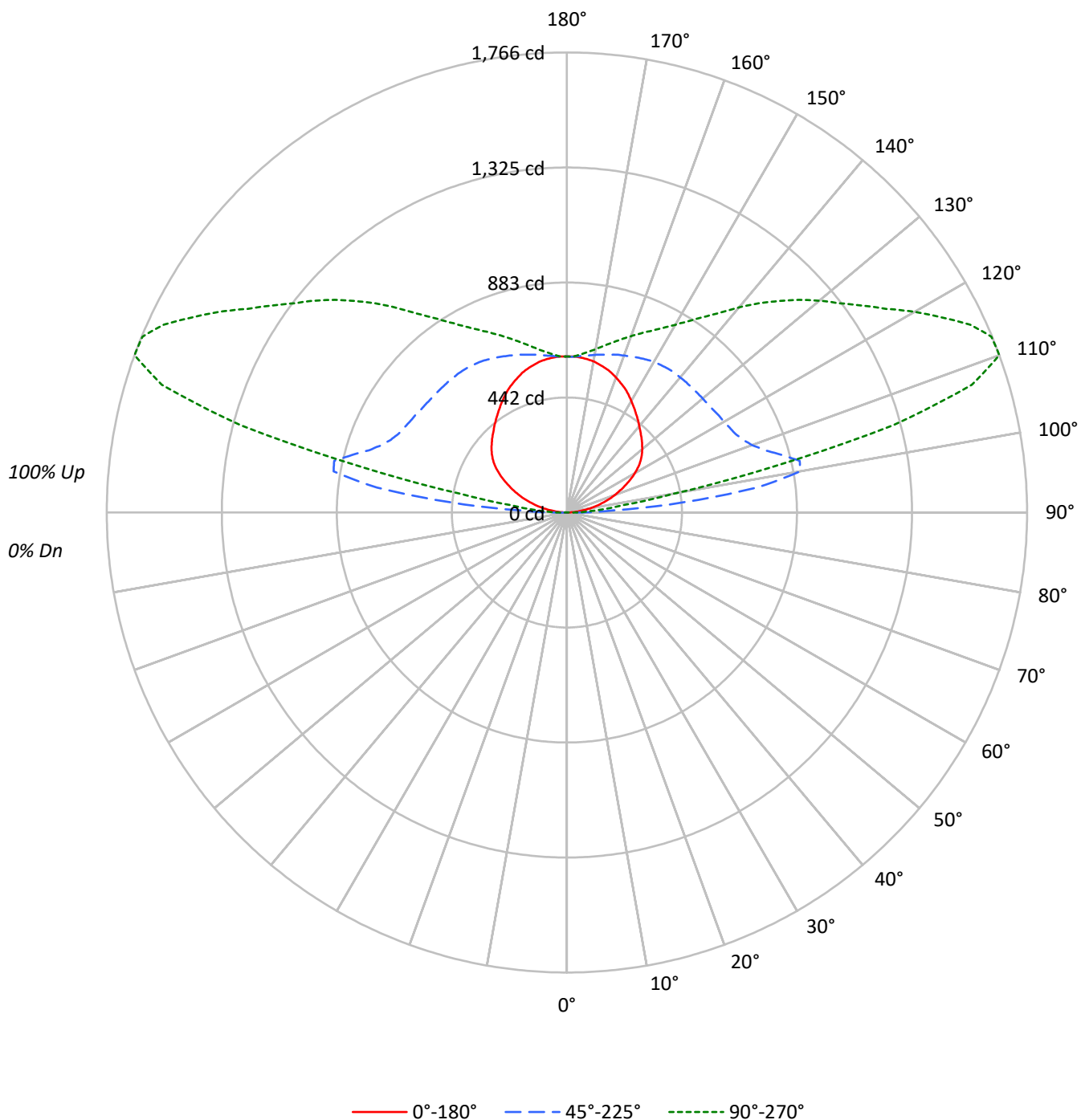
Lumens per Lamp: N/A
Luminaire Lumens: 4172.0 lumens
Efficiency: N/A
Efficacy: 119.2 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 35
Input Voltage (V):
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: 24 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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	95	95	95	95	81	81	81	81	56	56	56		32	32	32		10
1	87	83	79	76	74	71	68	65	48	47	45		28	27	26		9
2	79	72	66	62	67	62	57	53	42	40	37		24	23	22		8
3	72	63	56	51	61	54	49	44	37	34	31		21	20	18		7
4	65	56	48	43	56	48	42	37	33	29	26		19	17	16		6
5	60	49	42	36	51	42	36	32	29	25	22		17	15	13		5
6	55	44	36	31	47	38	32	27	26	22	19		15	13	11		5
7	50	39	32	27	43	34	28	23	23	19	17		14	11	10		4
8	47	35	28	23	40	30	24	20	21	17	14		12	10	9		4
9	43	32	25	20	37	27	22	18	19	15	13		11	9	8		4
10	40	29	22	18	34	25	19	16	17	14	11		10	8	7		3

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

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 0°
Luminance: 0 cd/sqm

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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°	3.8	0.1
90°-100°	233.3	5.6
100°-110°	821.7	19.7
110°-120°	863.0	20.7
120°-130°	709.9	17.0
130°-140°	570.3	13.7
140°-150°	430.8	10.3
150°-160°	302.9	7.3
160°-170°	178.3	4.3
170°-180°	58.0	1.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	3.8	0.1
90°-120°	1918.0	46.0
90°-150°	3629.0	87.0
90°-180°	4168.0	99.9
0°-180°	4172.0	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	16	39	37	38	3
95°	40	99	451	170	131	42
105°	140	212	853	1524	1297	149
115°	248	312	714	1473	1707	245
125°	345	409	686	1193	1385	307
135°	405	483	678	1003	1148	313
145°	463	532	674	837	916	290
155°	526	568	655	741	770	242
165°	573	590	627	665	676	162
175°	597	598	603	611	609	57
180°	598	598	598	598	598	

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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°	1.2	4.6	9.2	11.5	13.8	17.3	23.0	31.1	38.0	39.1	38.0
92.5°	17.3	24.2	33.4	39.1	48.3	61.0	92.1	135.8	175.0	177.3	148.5
95°	40.3	44.9	56.4	66.8	85.2	112.8	165.7	265.9	399.4	451.2	394.8
97.5°	59.9	66.8	79.4	94.4	115.1	146.2	214.1	353.4	568.6	735.5	741.3
100°	88.6	92.1	102.4	120.9	143.9	176.1	237.1	377.5	626.2	909.3	1075.0
102.5°	115.1	117.4	127.8	146.2	170.3	202.6	257.8	378.7	604.3	915.1	1199.4
105°	140.4	145.0	153.1	170.3	195.7	227.9	282.0	384.4	574.4	852.9	1159.1
107.5°	168.0	171.5	179.6	195.7	221.0	253.2	306.2	397.1	558.2	795.3	1073.9
110°	195.7	200.3	207.2	222.1	246.3	279.7	330.3	413.2	553.6	756.2	994.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	221.0	225.6	233.7	247.5	270.5	305.0	353.4	430.5	554.8	730.9	939.2
115°	247.5	253.2	260.1	273.9	297.0	328.0	377.5	447.7	559.4	713.6	895.5
117.5°	275.1	279.7	286.6	299.3	321.1	353.4	399.4	466.2	566.3	704.4	865.6
120°	300.4	305.0	311.9	322.3	345.3	377.5	422.4	484.6	573.2	696.4	842.5
122.5°	324.6	328.0	334.9	346.5	369.5	402.9	444.3	500.7	581.3	691.8	823.0
125°	345.3	348.8	355.7	369.5	392.5	424.7	466.2	518.0	589.3	686.0	804.6
127.5°	362.6	367.2	376.4	391.3	413.2	446.6	486.9	534.1	597.4	682.6	787.3
130°	377.5	382.1	393.6	409.8	432.8	465.0	505.3	549.0	606.6	680.2	770.0
132.5°	391.3	397.1	409.8	427.0	451.2	483.4	521.4	564.0	615.8	679.1	756.2
135°	405.2	409.8	423.6	440.8	467.3	499.5	536.4	576.7	622.7	677.9	743.6
137.5°	417.8	423.6	437.4	455.8	482.3	512.2	549.0	587.0	629.6	677.9	734.3
140°	432.8	437.4	451.2	469.6	494.9	524.9	559.4	595.1	634.2	676.8	726.3
142.5°	447.7	451.2	463.9	482.3	506.4	534.1	567.4	602.0	637.7	676.8	718.2
145°	462.7	467.3	478.8	496.1	519.1	544.4	575.5	607.7	640.0	674.5	711.3
147.5°	478.8	482.3	493.8	509.9	529.5	552.5	582.4	611.2	641.1	671.0	704.4
150°	494.9	498.4	507.6	522.6	539.8	560.5	587.0	613.5	640.0	667.6	695.2
152.5°	511.0	512.2	521.4	534.1	550.2	568.6	591.6	614.6	637.7	661.8	687.2
155°	526.0	527.2	534.1	546.7	559.4	576.7	596.2	615.8	635.4	654.9	676.8
157.5°	538.7	539.8	545.6	557.1	567.4	582.4	599.7	615.8	630.8	648.0	667.6
160°	551.3	552.5	557.1	566.3	575.5	588.2	602.0	615.8	627.3	641.1	657.2
162.5°	564.0	562.8	567.4	574.4	582.4	591.6	603.1	614.6	623.8	635.4	648.0
165°	573.2	572.1	574.4	581.3	587.0	593.9	604.3	612.3	619.2	627.3	637.7
167.5°	581.3	580.1	582.4	587.0	591.6	596.2	604.3	611.2	614.6	620.4	627.3
170°	589.3	587.0	588.2	591.6	593.9	597.4	603.1	608.9	611.2	614.6	619.2
172.5°	593.9	592.8	591.6	595.1	596.2	598.5	602.0	605.4	606.6	607.7	611.2
175°	597.4	596.2	595.1	597.4	597.4	598.5	600.8	603.1	602.0	603.1	604.3
177.5°	599.7	597.4	596.2	598.5	598.5	598.5	599.7	602.0	599.7	598.5	599.7
180°	598.5	598.5	598.5	598.5	598.5	598.5	598.5	598.5	598.5	598.5	598.5

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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°	36.8	34.5	36.8	38.0	38.0	38.0	38.0	38.0
92.5°	116.3	99.0	86.3	77.1	76.0	71.4	72.5	70.2
95°	301.6	231.4	183.0	157.7	142.7	133.5	130.1	131.2
97.5°	616.9	492.6	376.4	307.3	262.4	239.4	226.7	219.8
100°	1050.9	908.1	750.5	611.2	515.7	466.2	432.8	412.1
102.5°	1335.2	1330.6	1225.8	1076.2	970.3	877.1	833.3	803.4
105°	1398.5	1528.5	1543.5	1505.5	1434.2	1362.8	1313.3	1297.2
107.5°	1330.6	1523.9	1636.7	1682.8	1681.6	1671.3	1656.3	1629.8
110°	1237.3	1443.4	1590.7	1685.1	1734.6	1756.4	1766.8	1765.7

TEST NUMBER: P1007320

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	1152.2	1347.8	1507.8	1619.5	1693.1	1733.4	1755.3	1763.4
115°	1085.4	1262.7	1413.4	1532.0	1613.7	1666.7	1696.6	1707.0
117.5°	1030.2	1189.0	1329.4	1442.2	1526.2	1582.6	1613.7	1621.8
120°	991.0	1133.7	1255.8	1360.5	1441.1	1495.2	1528.5	1540.1
122.5°	959.9	1087.7	1201.7	1293.7	1363.9	1416.9	1445.7	1454.9
125°	930.0	1048.6	1149.9	1236.2	1302.9	1346.7	1375.5	1384.7
127.5°	900.1	1009.4	1106.1	1186.7	1245.4	1286.8	1312.2	1319.1
130°	871.3	970.3	1061.2	1137.2	1193.6	1232.7	1255.8	1265.0
132.5°	843.7	933.5	1015.2	1085.4	1140.7	1179.8	1200.5	1208.6
135°	818.4	894.3	970.3	1034.8	1084.3	1122.2	1143.0	1147.6
137.5°	797.7	863.3	925.4	983.0	1030.2	1063.5	1082.0	1088.9
140°	778.1	833.3	886.3	936.9	973.8	1003.7	1020.9	1027.9
142.5°	762.0	806.9	850.6	890.9	925.4	951.9	966.9	966.9
145°	747.0	785.0	820.7	854.1	881.7	901.2	912.8	916.2
147.5°	735.5	766.6	795.3	820.7	844.8	861.0	869.0	871.3
150°	722.8	748.2	772.3	793.0	810.3	824.1	831.0	832.2
152.5°	710.2	733.2	752.8	770.0	782.7	794.2	798.8	798.8
155°	698.7	717.1	734.3	747.0	759.7	767.7	772.3	770.0
157.5°	684.9	701.0	715.9	726.3	735.5	742.4	744.7	744.7
160°	672.2	684.9	697.5	705.6	713.6	719.4	720.5	720.5
162.5°	659.5	669.9	680.2	686.0	694.1	697.5	698.7	697.5
165°	646.9	654.9	663.0	667.6	672.2	676.8	676.8	675.6
167.5°	634.2	641.1	646.9	651.5	653.8	656.1	656.1	654.9
170°	625.0	628.5	633.1	635.4	636.5	640.0	638.8	636.5
172.5°	614.6	616.9	620.4	621.5	622.7	623.8	622.7	621.5
175°	607.7	608.9	610.0	611.2	611.2	612.3	611.2	608.9
177.5°	602.0	602.0	603.1	603.1	603.1	603.1	602.0	599.7
180°	598.5	598.5	598.5	598.5	598.5	598.5	598.5	598.5

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