

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: P1007758

Luminaire Tested: S124IP-B810UB30-4F0-XX-W2A-4

Issue Date: 5/5/2025

Test Information

Test Method: LM-79-2019
Report Number: P1007758
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124IP-B810UB30-4F0-XX-W2A-4
Description: Define 4 Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

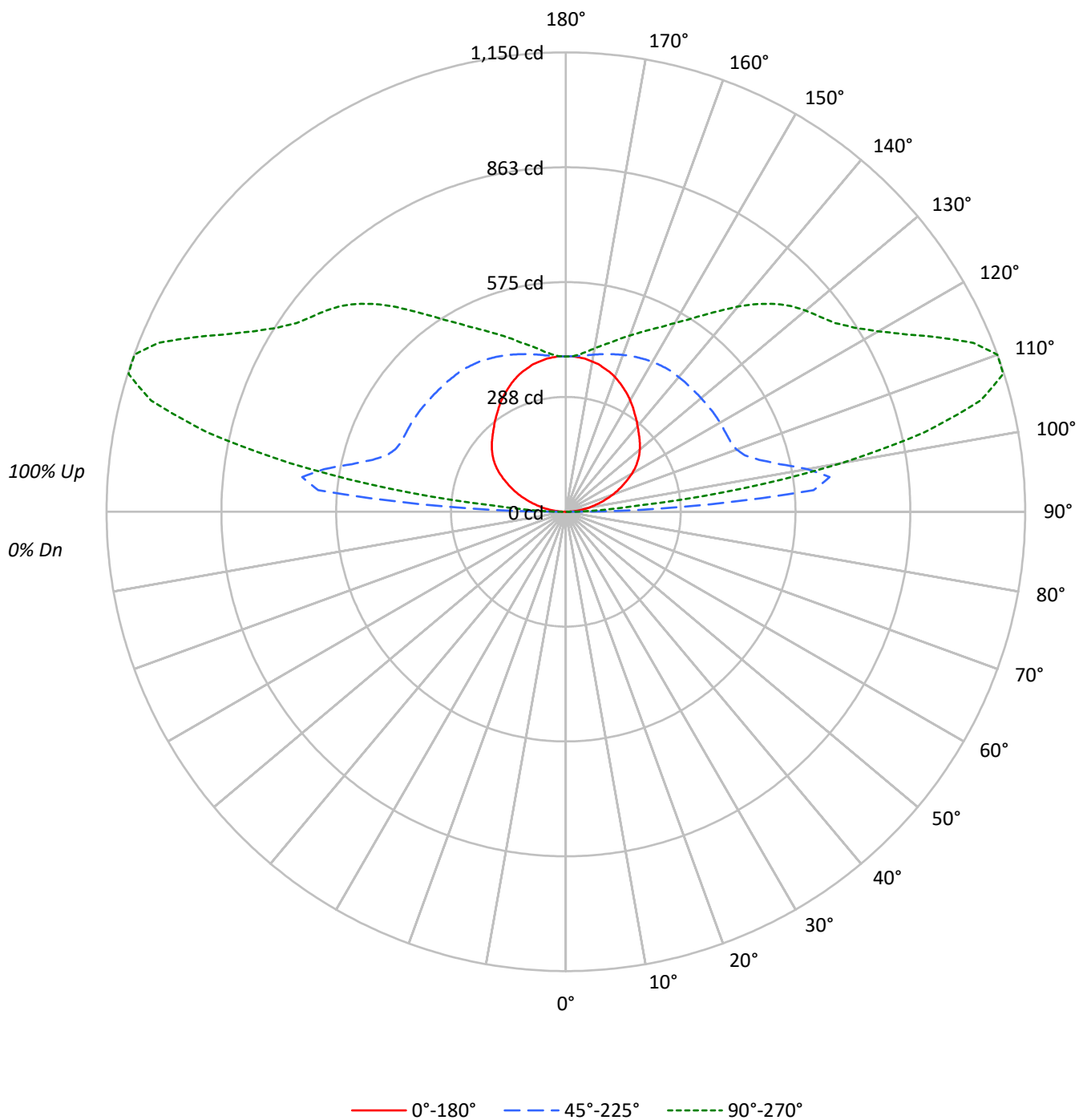
Lumens per Lamp: N/A
Luminaire Lumens: 2833.0 lumens
Efficiency: N/A
Efficacy: 134.3 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 21.1
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	30	10
RCR																	
0	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2

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°	1.5	0.1
90°-100°	281.8	9.9
100°-110°	588.2	20.8
110°-120°	522.9	18.5
120°-130°	440.2	15.5
130°-140°	367.2	13.0
140°-150°	280.4	9.9
150°-160°	197.1	7.0
160°-170°	115.9	4.1
170°-180°	37.7	1.3
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.5	0.1
90°-120°	1392.9	49.2
90°-150°	2480.7	87.6
90°-180°	2831.0	99.9
0°-180°	2833.0	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	6	14	15	16	2
95°	25	79	622	308	186	28
105°	89	129	501	1079	1075	95
115°	157	197	447	858	1032	156
125°	219	260	444	731	823	195
135°	260	310	441	648	736	201
145°	300	344	438	547	601	188
155°	341	369	426	483	503	157
165°	372	383	409	433	439	105
175°	388	389	392	397	396	37
180°	389	389	389	389	389	

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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	2.3	4.6	5.3	6.1	6.1	10.7	10.7	12.2	13.7	13.0
92.5°	10.7	15.3	23.7	35.1	48.9	68.7	116.1	190.2	262.0	299.4	249.0
95°	25.2	27.5	35.1	45.1	63.4	95.5	161.9	287.2	469.7	622.5	640.0
97.5°	42.0	42.0	48.9	58.0	74.1	101.6	154.3	262.0	449.9	666.0	802.7
100°	58.0	58.0	63.4	72.6	87.1	111.5	156.6	242.9	398.7	614.1	809.6
102.5°	73.3	74.9	79.4	87.8	101.6	124.5	164.2	237.5	364.3	549.2	752.3
105°	89.4	91.7	95.5	104.6	118.4	140.5	177.2	240.6	347.5	501.0	680.5
107.5°	106.9	108.5	112.3	122.2	135.2	157.3	190.9	249.8	342.9	469.7	621.7
110°	124.5	126.0	129.8	139.0	152.8	173.4	207.0	260.4	344.5	455.2	579.7

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	141.3	142.8	147.4	155.8	169.6	190.2	222.3	271.9	349.0	448.3	556.0
115°	157.3	159.6	165.0	172.6	187.1	207.7	238.3	284.1	355.2	446.8	543.0
117.5°	174.1	176.4	181.0	189.4	203.2	224.6	253.6	296.3	361.3	446.0	536.2
120°	190.9	192.5	197.8	206.2	219.2	240.6	269.6	309.3	368.1	446.0	530.8
122.5°	206.2	207.7	213.1	220.7	235.2	255.9	284.9	321.6	375.0	445.3	524.7
125°	219.2	222.3	226.8	235.2	249.8	271.1	298.6	333.8	381.9	444.5	517.8
127.5°	231.4	233.7	239.1	248.2	263.5	284.9	311.6	344.5	387.2	443.0	508.7
130°	241.4	244.4	250.5	262.0	276.5	298.6	324.6	354.4	393.3	442.2	500.3
132.5°	251.3	253.6	262.0	272.7	288.7	309.3	335.3	364.3	398.7	441.5	492.6
135°	260.4	263.5	271.1	284.1	300.2	320.0	345.2	372.7	404.0	440.7	485.0
137.5°	269.6	272.7	281.1	293.3	310.1	329.2	352.9	378.8	407.1	440.7	478.1
140°	279.5	281.8	290.2	303.2	319.3	337.6	360.5	384.9	410.9	439.9	472.8
142.5°	290.2	292.5	300.2	312.4	327.7	345.2	367.4	389.5	414.0	439.9	468.2
145°	300.2	302.5	310.1	320.8	335.3	352.1	372.0	392.6	414.7	438.4	462.9
147.5°	311.6	312.4	319.3	330.7	342.9	358.2	377.3	395.6	415.5	436.1	458.3
150°	322.3	323.1	329.2	338.4	349.8	364.3	381.1	397.9	415.5	433.8	452.9
152.5°	332.2	332.2	338.4	346.8	356.7	369.7	384.2	399.5	414.0	430.0	446.8
155°	341.4	342.2	346.8	354.4	362.8	374.3	387.2	400.2	412.4	426.2	440.7
157.5°	350.6	350.6	355.2	361.3	368.9	378.1	389.5	400.2	410.9	422.4	434.6
160°	359.0	359.0	362.0	367.4	373.5	381.9	391.1	400.2	408.6	417.8	427.7
162.5°	366.6	365.9	368.1	372.7	378.1	384.2	392.6	400.2	406.3	413.2	421.6
165°	372.0	372.0	373.5	377.3	381.1	385.7	392.6	398.7	403.3	408.6	414.7
167.5°	378.1	377.3	378.1	381.1	383.4	387.2	392.6	397.2	400.2	404.0	408.6
170°	381.9	381.1	381.9	384.2	385.7	388.0	391.8	395.6	397.2	399.5	402.5
172.5°	385.7	384.9	384.9	386.5	387.2	388.8	391.1	394.1	394.1	394.9	397.2
175°	388.0	387.2	387.2	388.0	388.8	388.8	390.3	392.6	391.8	391.8	393.3
177.5°	389.5	388.8	388.0	388.8	388.8	388.8	389.5	391.1	389.5	389.5	390.3
180°	388.8	388.8	388.8	388.8	388.8	388.8	388.8	388.8	388.8	388.8	388.8

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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°	13.7	14.5	15.3	15.3	16.0	16.8	16.0	16.0
92.5°	184.1	137.5	108.5	89.4	77.9	72.6	69.5	69.5
95°	566.0	447.6	345.2	271.1	233.7	210.0	196.3	186.4
97.5°	815.0	756.1	672.1	586.6	534.6	488.8	465.9	447.6
100°	921.1	936.4	899.0	842.5	776.0	729.4	706.5	700.4
102.5°	915.8	1006.7	1029.6	1014.3	979.9	949.4	924.9	920.4
105°	855.4	987.6	1063.2	1094.5	1096.0	1089.9	1079.2	1074.6
107.5°	781.3	924.2	1029.6	1093.7	1127.3	1141.1	1147.2	1148.0
110°	715.7	847.8	958.5	1042.6	1096.8	1128.9	1142.6	1149.5

TEST NUMBER: P1007758

CATALOG NUMBER: S124IP-B810UB30-4F0-XX-W2A-4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	667.5	780.6	883.7	967.7	1031.1	1071.6	1092.2	1104.4
115°	638.5	732.5	821.8	895.2	955.5	1001.3	1025.8	1031.9
117.5°	621.7	701.2	773.7	837.9	891.3	931.0	957.0	960.8
120°	611.0	682.1	743.2	797.4	840.9	874.5	894.4	902.8
122.5°	601.9	669.8	724.1	769.9	805.0	832.5	848.6	857.0
125°	591.2	656.9	709.6	751.6	782.1	804.3	818.8	823.4
127.5°	578.9	642.3	695.0	734.8	765.3	785.2	797.4	802.0
130°	563.7	624.0	675.9	716.4	747.7	766.8	779.1	783.6
132.5°	547.6	603.4	653.8	694.3	724.8	747.0	758.4	763.0
135°	533.1	582.8	629.4	667.5	698.1	719.5	731.7	736.3
137.5°	519.4	562.9	603.4	638.5	667.5	689.7	699.6	705.0
140°	507.9	543.8	578.2	610.3	637.0	653.8	664.5	670.6
142.5°	497.2	527.8	556.0	582.8	605.7	621.0	630.1	633.9
145°	487.3	513.3	536.2	557.6	576.7	589.6	597.3	601.1
147.5°	478.9	500.3	519.4	536.9	551.4	562.9	569.0	570.5
150°	471.3	488.8	504.1	517.8	530.1	540.0	544.6	545.3
152.5°	462.9	477.4	491.1	501.8	511.7	519.4	521.7	522.4
155°	454.4	466.7	478.1	487.3	494.9	501.0	503.3	503.3
157.5°	445.3	456.0	465.9	473.5	479.7	484.2	485.8	485.8
160°	436.9	445.3	453.7	459.8	464.4	469.0	469.7	469.7
162.5°	428.5	435.4	441.5	446.8	449.9	454.4	455.2	454.4
165°	420.8	425.4	430.8	434.6	437.6	440.7	439.9	439.2
167.5°	413.2	417.0	421.6	423.9	425.4	427.7	427.7	427.0
170°	406.3	408.6	411.7	414.0	415.5	416.3	415.5	415.5
172.5°	400.2	401.7	403.3	404.8	405.6	406.3	405.6	404.0
175°	394.9	395.6	397.2	397.2	397.2	398.7	397.2	395.6
177.5°	391.1	391.8	391.8	392.6	391.8	392.6	391.1	389.5
180°	388.8	388.8	388.8	388.8	388.8	388.8	388.8	388.8

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