

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: P1007568

Luminaire Tested: S123IP-B585UB2750-4F0-XX-W2A-4_3000K

Issue Date: 5/5/2025

Test Information

Test Method: LM-79-2019
Report Number: P1007568
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123IP-B585UB2750-4F0-XX-W2A-4_3000K
Description: Define 3 Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

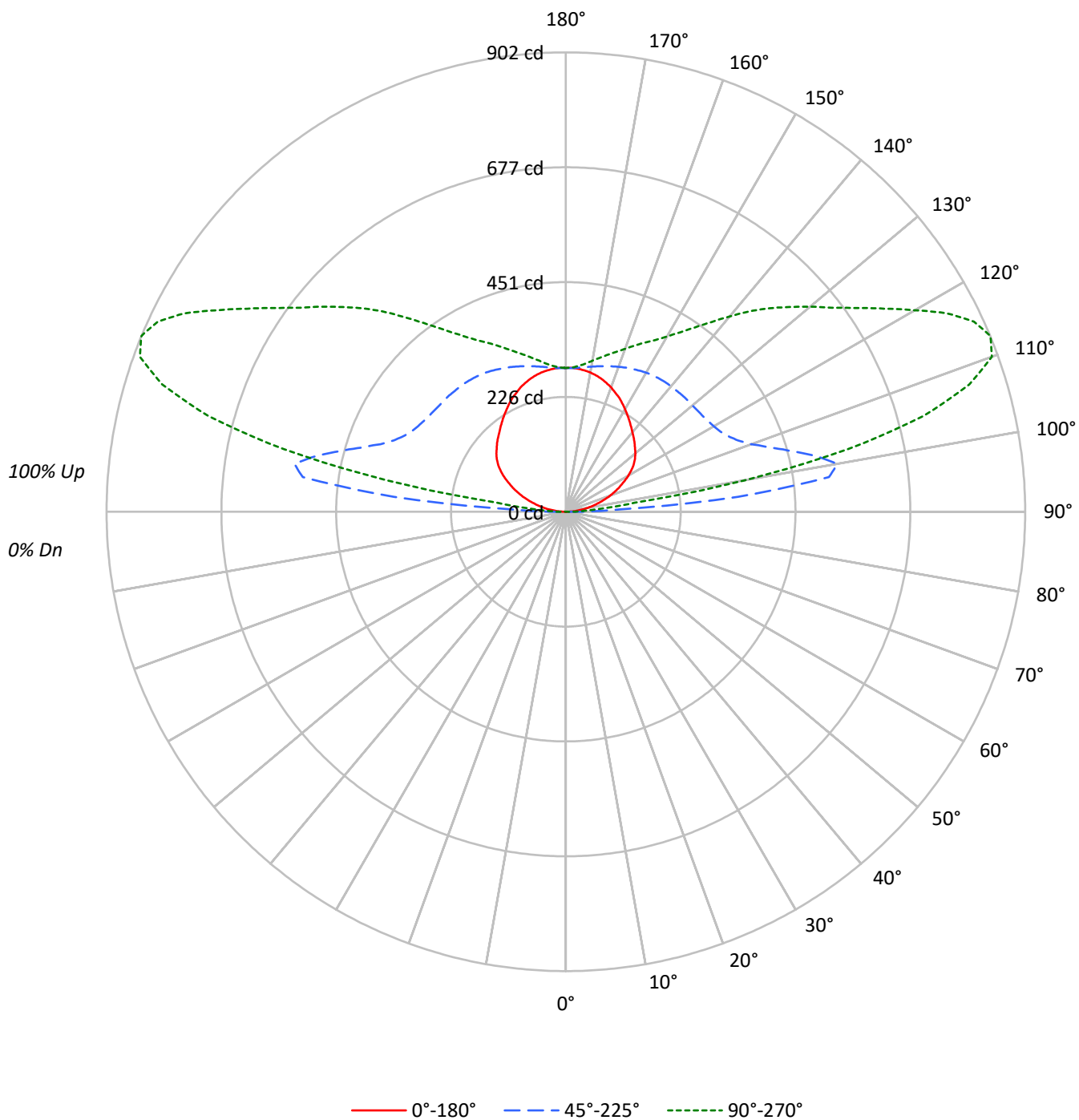
Lumens per Lamp: N/A
Luminaire Lumens: 2125.0 lumens
Efficiency: N/A
Efficacy: 138.0 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 15.4
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°	1.6	0.1
90°-100°	153.2	7.2
100°-110°	448.5	21.1
110°-120°	437.9	20.6
120°-130°	348.8	16.4
130°-140°	275.2	12.9
140°-150°	205.3	9.7
150°-160°	143.1	6.7
160°-170°	84.1	4.0
170°-180°	27.3	1.3
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.6	0.1
90°-120°	1039.6	48.9
90°-150°	1868.9	87.9
90°-180°	2123.0	99.9
0°-180°	2125.0	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	7	14	16	17	1
95°	19	63	339	99	66	21
105°	66	98	459	803	727	70
115°	117	146	351	771	884	116
125°	163	192	328	594	697	145
135°	191	228	323	489	565	147
145°	218	249	319	401	442	136
155°	247	267	309	351	366	114
165°	270	278	296	314	319	76
175°	282	282	284	288	287	27
180°	282	282	282	282	282	

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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°	1.1	2.3	3.4	5.1	6.3	7.4	9.1	10.9	12.6	14.3	13.7
92.5°	8.6	12.6	18.3	23.4	29.1	39.4	57.7	88.0	117.7	106.3	79.4
95°	19.4	21.1	27.4	37.1	52.0	74.3	122.9	208.0	301.7	338.9	274.9
97.5°	30.9	31.4	36.6	45.1	60.0	84.6	132.6	231.4	389.2	521.2	538.9
100°	42.3	42.9	46.9	54.9	68.6	90.9	130.9	215.4	365.7	541.2	653.7
102.5°	54.3	55.4	58.9	66.3	78.3	98.3	133.1	201.7	331.4	504.0	659.4
105°	66.3	68.0	71.4	78.3	89.1	106.9	137.7	196.6	304.6	459.4	623.4
107.5°	78.9	80.6	84.0	90.9	101.1	117.7	145.1	195.4	285.2	420.0	572.0
110°	92.6	94.3	97.1	103.4	113.1	129.1	154.9	198.3	274.9	387.4	524.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	105.1	106.9	109.7	116.0	125.7	141.1	164.6	204.0	269.1	365.7	482.3
115°	117.1	119.4	122.9	128.6	138.3	153.7	175.4	210.3	268.6	351.4	450.3
117.5°	129.1	132.0	134.9	140.0	150.9	165.1	186.9	218.3	269.1	341.7	429.2
120°	141.7	143.4	146.3	152.0	162.9	177.1	197.7	227.4	271.4	335.4	413.2
122.5°	152.6	154.3	157.1	163.4	173.7	189.1	209.1	236.0	275.4	331.4	400.0
125°	162.9	164.0	167.4	173.7	184.6	200.0	220.0	245.1	279.4	328.0	389.2
127.5°	170.9	172.6	176.6	182.9	194.9	210.3	229.7	252.6	284.0	326.3	378.9
130°	178.3	180.0	185.1	192.0	204.0	219.4	238.3	260.0	288.6	324.6	370.9
132.5°	184.0	186.3	192.0	200.6	212.6	227.4	245.7	266.9	292.0	324.0	363.4
135°	190.9	193.1	199.4	208.0	220.0	235.4	253.1	272.6	295.4	323.4	357.2
137.5°	197.1	199.4	205.7	214.9	226.9	241.1	258.3	277.2	297.7	322.3	351.4
140°	203.4	206.3	212.0	221.1	232.6	246.9	263.4	280.6	300.0	321.7	346.3
142.5°	210.3	212.6	218.9	226.9	238.3	251.4	267.4	284.0	301.7	320.6	341.7
145°	217.7	219.4	224.6	233.1	242.9	256.0	270.9	286.3	302.3	319.4	337.7
147.5°	225.1	226.3	231.4	238.9	248.6	260.0	273.7	288.0	302.3	317.7	333.7
150°	232.6	233.1	237.7	245.1	253.1	263.4	276.6	288.6	302.3	315.4	329.7
152.5°	240.0	240.0	244.6	250.9	257.7	267.4	278.3	289.7	300.6	312.6	325.2
155°	247.4	247.4	250.9	256.6	262.9	270.9	280.6	289.7	299.4	309.2	320.6
157.5°	253.1	253.7	256.6	261.7	267.4	273.7	281.7	290.3	297.7	306.3	315.4
160°	260.0	260.0	262.3	266.9	270.9	276.6	283.4	290.3	296.6	302.9	310.3
162.5°	265.1	265.1	266.9	270.3	273.7	278.3	284.0	289.7	294.3	299.4	305.2
165°	270.3	269.7	270.9	273.7	276.0	280.0	284.6	288.6	292.0	296.0	300.6
167.5°	274.3	273.7	274.3	276.6	278.3	281.2	284.6	288.0	289.7	292.6	296.0
170°	277.7	276.6	277.2	278.9	280.0	281.2	284.0	286.3	287.4	289.2	292.0
172.5°	280.0	279.4	279.4	280.6	281.2	281.7	284.0	285.7	285.7	286.3	288.0
175°	281.7	281.2	280.6	281.7	281.7	282.3	283.4	284.6	284.0	284.0	285.2
177.5°	282.9	282.3	281.7	282.3	282.3	282.3	282.9	284.0	282.9	282.3	282.9
180°	282.3	282.3	282.3	282.3	282.3	282.3	282.3	282.3	282.3	282.3	282.3

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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°	14.3	14.9	15.4	16.6	16.0	16.6	17.1	16.6
92.5°	56.6	44.0	38.3	34.3	33.1	30.9	31.4	30.3
95°	205.7	139.4	109.1	88.6	77.7	72.6	68.6	66.3
97.5°	472.6	356.6	281.2	216.0	177.7	156.0	142.3	136.0
100°	673.7	627.4	560.6	479.4	421.7	380.0	357.7	358.3
102.5°	740.6	750.3	718.3	674.3	632.6	601.7	584.0	567.4
105°	742.9	800.0	810.9	796.0	769.7	748.0	729.7	726.9
107.5°	708.6	798.3	842.9	858.3	854.9	844.6	837.2	830.9
110°	654.9	760.0	832.0	872.0	888.0	892.6	891.5	890.3

TEST NUMBER: P1007568

CATALOG NUMBER: S123IP-B585UB2750-4F0-XX-W2A-4_3000K

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	601.7	709.7	792.6	846.9	879.5	896.0	901.7	902.3
115°	556.0	655.4	739.4	801.7	844.6	869.7	881.2	884.0
117.5°	520.6	608.6	685.7	750.3	794.9	822.9	840.0	844.0
120°	493.7	570.9	639.4	697.2	742.3	774.3	788.0	791.4
122.5°	472.6	540.6	602.9	655.4	694.3	722.3	737.7	742.3
125°	454.3	516.6	571.4	617.2	653.7	678.9	693.2	697.2
127.5°	437.7	494.3	544.6	586.9	620.0	641.7	654.9	658.3
130°	422.3	473.7	520.0	558.9	589.2	609.7	621.7	626.3
132.5°	408.0	454.3	496.6	533.2	561.2	581.7	592.0	594.9
135°	395.4	436.0	473.2	505.7	533.7	550.9	561.2	565.2
137.5°	383.4	417.7	450.9	480.0	504.0	521.7	530.3	533.7
140°	373.2	402.3	429.7	454.3	476.0	492.0	501.2	500.6
142.5°	363.4	387.4	410.3	430.9	448.6	462.3	470.3	469.7
145°	356.0	374.9	393.2	409.7	424.0	436.0	440.6	441.7
147.5°	349.7	365.2	380.6	392.6	404.0	412.6	417.2	417.7
150°	342.9	356.0	368.0	378.9	387.4	393.7	397.2	397.2
152.5°	336.6	347.4	357.7	366.3	372.6	378.3	380.0	380.0
155°	330.3	339.4	348.0	354.9	360.0	364.6	365.7	366.3
157.5°	323.4	331.4	338.3	344.0	348.6	352.0	353.2	353.2
160°	317.7	324.0	329.7	333.7	337.7	341.2	341.2	340.6
162.5°	310.9	316.0	321.2	324.6	326.9	329.7	329.7	329.2
165°	305.2	308.6	312.6	315.4	317.7	320.0	319.4	319.4
167.5°	300.0	302.9	305.2	307.4	308.6	310.3	309.7	309.7
170°	294.9	296.6	298.9	300.0	300.6	301.7	301.2	301.2
172.5°	290.3	291.4	293.2	293.7	293.7	294.9	293.7	293.2
175°	286.3	286.9	288.0	288.0	288.0	288.6	288.0	287.4
177.5°	283.4	284.0	284.6	284.6	284.0	284.6	283.4	283.4
180°	282.3	282.3	282.3	282.3	282.3	282.3	282.3	282.3

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