

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: P334472

Luminaire Tested: **S122IP-S725U940-4F0-1E-UDD-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334472
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-S725U940-4F0-1E-UDD-4
Description: DEFINE 2 INDIRECT LED LUMINAIRE, BATWING OPTIC
PENDANT MOUNT, 725 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

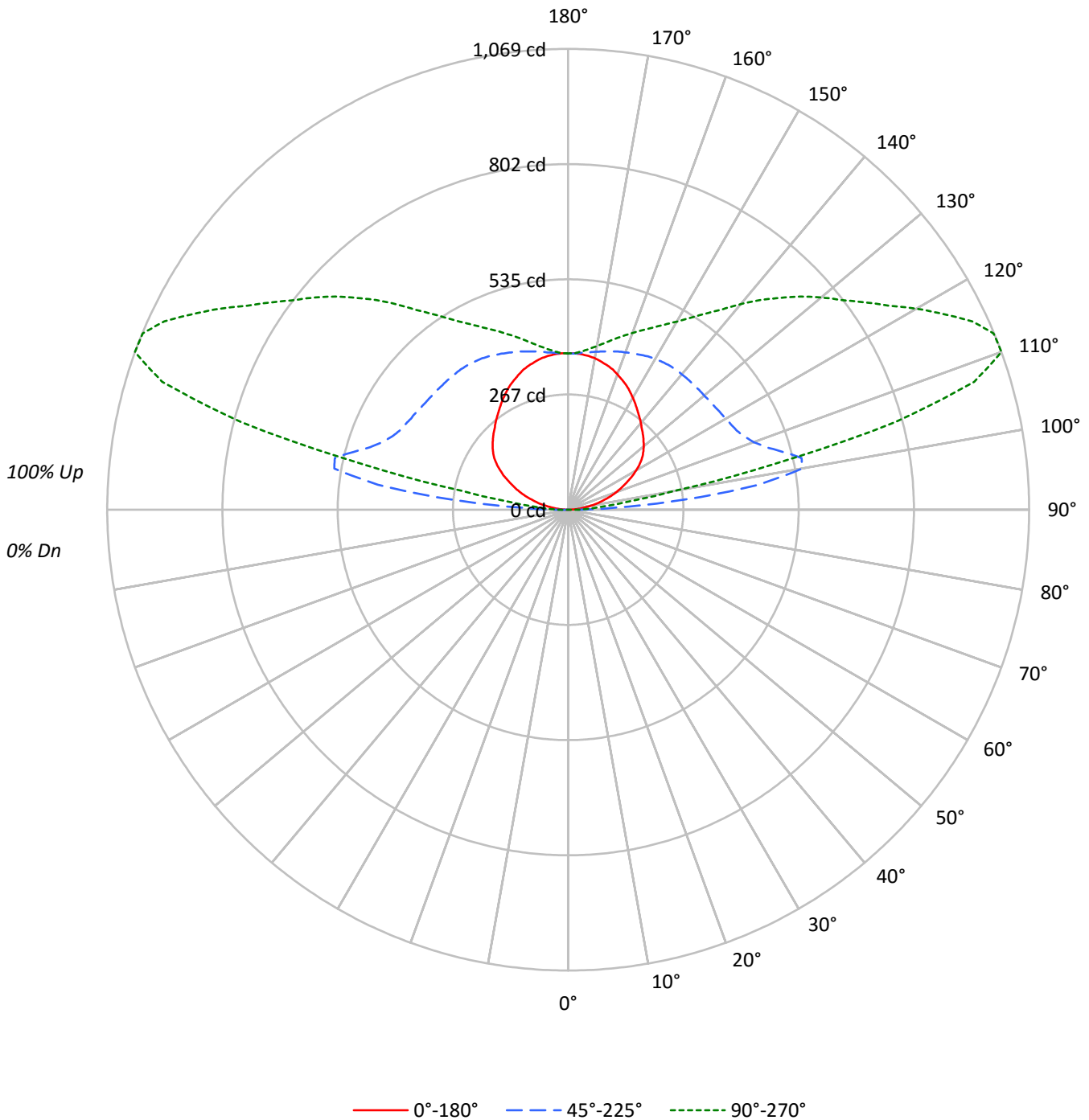
Lumens per Lamp: N/A
Luminaire Lumens: 2526.6 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 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°	2.3	0.1
90°-100°	141.3	5.6
100°-110°	497.6	19.7
110°-120°	522.6	20.7
120°-130°	429.9	17.0
130°-140°	345.4	13.7
140°-150°	260.9	10.3
150°-160°	183.4	7.3
160°-170°	108.0	4.3
170°-180°	35.1	1.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.3	0.1
90°-120°	1161.5	46.0
90°-150°	2197.7	87.0
90°-180°	2524.0	99.9
0°-180°	2526.6	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	9	24	23	23	2
95°	24	60	273	103	80	25
105°	85	128	516	923	786	90
115°	150	189	432	892	1034	149
125°	209	247	415	722	839	186
135°	245	293	411	607	695	190
145°	280	322	408	507	555	176
155°	319	344	397	449	466	147
165°	347	358	380	403	409	98
175°	362	362	365	370	369	34
180°	362	362	362	362	362	



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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	2.8	5.6	7.0	8.4	10.5	13.9	18.8	23.0	23.7	23.0
92.5°	10.5	14.6	20.2	23.7	29.3	36.9	55.8	82.3	106.0	107.3	89.9
95°	24.4	27.2	34.2	40.4	51.6	68.3	100.4	161.0	241.9	273.2	239.1
97.5°	36.2	40.4	48.1	57.2	69.7	88.5	129.7	214.0	344.3	445.4	448.9
100°	53.7	55.8	62.0	73.2	87.1	106.6	143.6	228.6	379.2	550.7	651.0
102.5°	69.7	71.1	77.4	88.5	103.2	122.7	156.1	229.3	366.0	554.2	726.3
105°	85.0	87.8	92.7	103.2	118.5	138.0	170.8	232.8	347.8	516.5	701.9
107.5°	101.8	103.9	108.7	118.5	133.8	153.4	185.4	240.5	338.1	481.7	650.3
110°	118.5	121.3	125.5	134.5	149.2	169.4	200.1	250.2	335.3	458.0	602.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	133.8	136.6	141.5	149.9	163.8	184.7	214.0	260.7	336.0	442.6	568.8
115°	149.9	153.4	157.5	165.9	179.8	198.7	228.6	271.2	338.8	432.2	542.3
117.5°	166.6	169.4	173.6	181.2	194.5	214.0	241.9	282.3	342.9	426.6	524.2
120°	181.9	184.7	188.9	195.2	209.1	228.6	255.8	293.5	347.1	421.7	510.2
122.5°	196.6	198.7	202.8	209.8	223.8	244.0	269.1	303.2	352.0	418.9	498.4
125°	209.1	211.2	215.4	223.8	237.7	257.2	282.3	313.7	356.9	415.4	487.2
127.5°	219.6	222.4	227.9	237.0	250.2	270.5	294.9	323.4	361.8	413.4	476.8
130°	228.6	231.4	238.4	248.2	262.1	281.6	306.0	332.5	367.3	412.0	466.3
132.5°	237.0	240.5	248.2	258.6	273.2	292.8	315.8	341.6	372.9	411.3	458.0
135°	245.4	248.2	256.5	267.0	283.0	302.5	324.8	349.2	377.1	410.6	450.3
137.5°	253.0	256.5	264.9	276.0	292.1	310.2	332.5	355.5	381.3	410.6	444.7
140°	262.1	264.9	273.2	284.4	299.7	317.9	338.8	360.4	384.1	409.9	439.8
142.5°	271.2	273.2	280.9	292.1	306.7	323.4	343.6	364.6	386.2	409.9	435.0
145°	280.2	283.0	290.0	300.4	314.4	329.7	348.5	368.0	387.6	408.5	430.8
147.5°	290.0	292.1	299.0	308.8	320.6	334.6	352.7	370.1	388.3	406.4	426.6
150°	299.7	301.8	307.4	316.5	326.9	339.5	355.5	371.5	387.6	404.3	421.0
152.5°	309.5	310.2	315.8	323.4	333.2	344.3	358.3	372.2	386.2	400.8	416.1
155°	318.6	319.2	323.4	331.1	338.8	349.2	361.1	372.9	384.8	396.6	409.9
157.5°	326.2	326.9	330.4	337.4	343.6	352.7	363.2	372.9	382.0	392.4	404.3
160°	333.9	334.6	337.4	342.9	348.5	356.2	364.6	372.9	379.9	388.3	398.0
162.5°	341.6	340.9	343.6	347.8	352.7	358.3	365.3	372.2	377.8	384.8	392.4
165°	347.1	346.4	347.8	352.0	355.5	359.7	366.0	370.8	375.0	379.9	386.2
167.5°	352.0	351.3	352.7	355.5	358.3	361.1	366.0	370.1	372.2	375.7	379.9
170°	356.9	355.5	356.2	358.3	359.7	361.8	365.3	368.7	370.1	372.2	375.0
172.5°	359.7	359.0	358.3	360.4	361.1	362.5	364.6	366.6	367.3	368.0	370.1
175°	361.8	361.1	360.4	361.8	361.8	362.5	363.9	365.3	364.6	365.3	366.0
177.5°	363.2	361.8	361.1	362.5	362.5	362.5	363.2	364.6	363.2	362.5	363.2
180°	362.5	362.5	362.5	362.5	362.5	362.5	362.5	362.5	362.5	362.5	362.5



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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°	22.3	20.9	22.3	23.0	23.0	23.0	23.0	23.0
92.5°	70.4	59.9	52.3	46.7	46.0	43.2	43.9	42.5
95°	182.6	140.1	110.8	95.5	86.4	80.9	78.8	79.5
97.5°	373.6	298.3	227.9	186.1	158.9	145.0	137.3	133.1
100°	636.4	550.0	454.5	370.1	312.3	282.3	262.1	249.5
102.5°	808.6	805.8	742.4	651.7	587.6	531.2	504.7	486.5
105°	846.9	925.7	934.7	911.7	868.5	825.3	795.3	785.6
107.5°	805.8	922.9	991.2	1019.1	1018.4	1012.1	1003.1	987.0
110°	749.3	874.1	963.3	1020.5	1050.5	1063.7	1070.0	1069.3



TEST NUMBER: P334472

CATALOG NUMBER: S122IP-S725U940-4F0-1E-UDD-4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	697.7	816.2	913.1	980.8	1025.4	1049.8	1063.0	1067.9
115°	657.3	764.7	856.0	927.8	977.3	1009.3	1027.5	1033.7
117.5°	623.9	720.1	805.1	873.4	924.3	958.4	977.3	982.1
120°	600.2	686.6	760.5	823.9	872.7	905.5	925.7	932.7
122.5°	581.3	658.7	727.7	783.5	826.0	858.1	875.5	881.1
125°	563.2	635.0	696.4	748.6	789.1	815.6	833.0	838.6
127.5°	545.1	611.3	669.9	718.7	754.2	779.3	794.6	798.8
130°	527.7	587.6	642.7	688.7	722.8	746.5	760.5	766.1
132.5°	510.9	565.3	614.8	657.3	690.8	714.5	727.0	731.9
135°	495.6	541.6	587.6	626.6	656.6	679.6	692.2	695.0
137.5°	483.1	522.8	560.4	595.3	623.9	644.1	655.2	659.4
140°	471.2	504.7	536.7	567.4	589.7	607.8	618.3	622.5
142.5°	461.4	488.6	515.1	539.5	560.4	576.5	585.5	585.5
145°	452.4	475.4	497.0	517.2	533.9	545.8	552.8	554.9
147.5°	445.4	464.2	481.7	497.0	511.6	521.4	526.3	527.7
150°	437.7	453.1	467.7	480.3	490.7	499.1	503.3	504.0
152.5°	430.1	444.0	455.9	466.3	474.0	481.0	483.8	483.8
155°	423.1	434.3	444.7	452.4	460.1	464.9	467.7	466.3
157.5°	414.7	424.5	433.6	439.8	445.4	449.6	451.0	451.0
160°	407.1	414.7	422.4	427.3	432.2	435.7	436.4	436.4
162.5°	399.4	405.7	412.0	415.4	420.3	422.4	423.1	422.4
165°	391.7	396.6	401.5	404.3	407.1	409.9	409.9	409.2
167.5°	384.1	388.3	391.7	394.5	395.9	397.3	397.3	396.6
170°	378.5	380.6	383.4	384.8	385.5	387.6	386.9	385.5
172.5°	372.2	373.6	375.7	376.4	377.1	377.8	377.1	376.4
175°	368.0	368.7	369.4	370.1	370.1	370.8	370.1	368.7
177.5°	364.6	364.6	365.3	365.3	365.3	365.3	364.6	363.2
180°	362.5	362.5	362.5	362.5	362.5	362.5	362.5	362.5

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