

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: P334997

Luminaire Tested: **S125IP-S810U940-4F0-1E-UDD-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334997
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-S810U940-4F0-1E-UDD-4
Description: DEFINE 5 INDIRECT LED LUMINAIRE, BATWING OPTIC
PENDANT MOUNT, 810 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

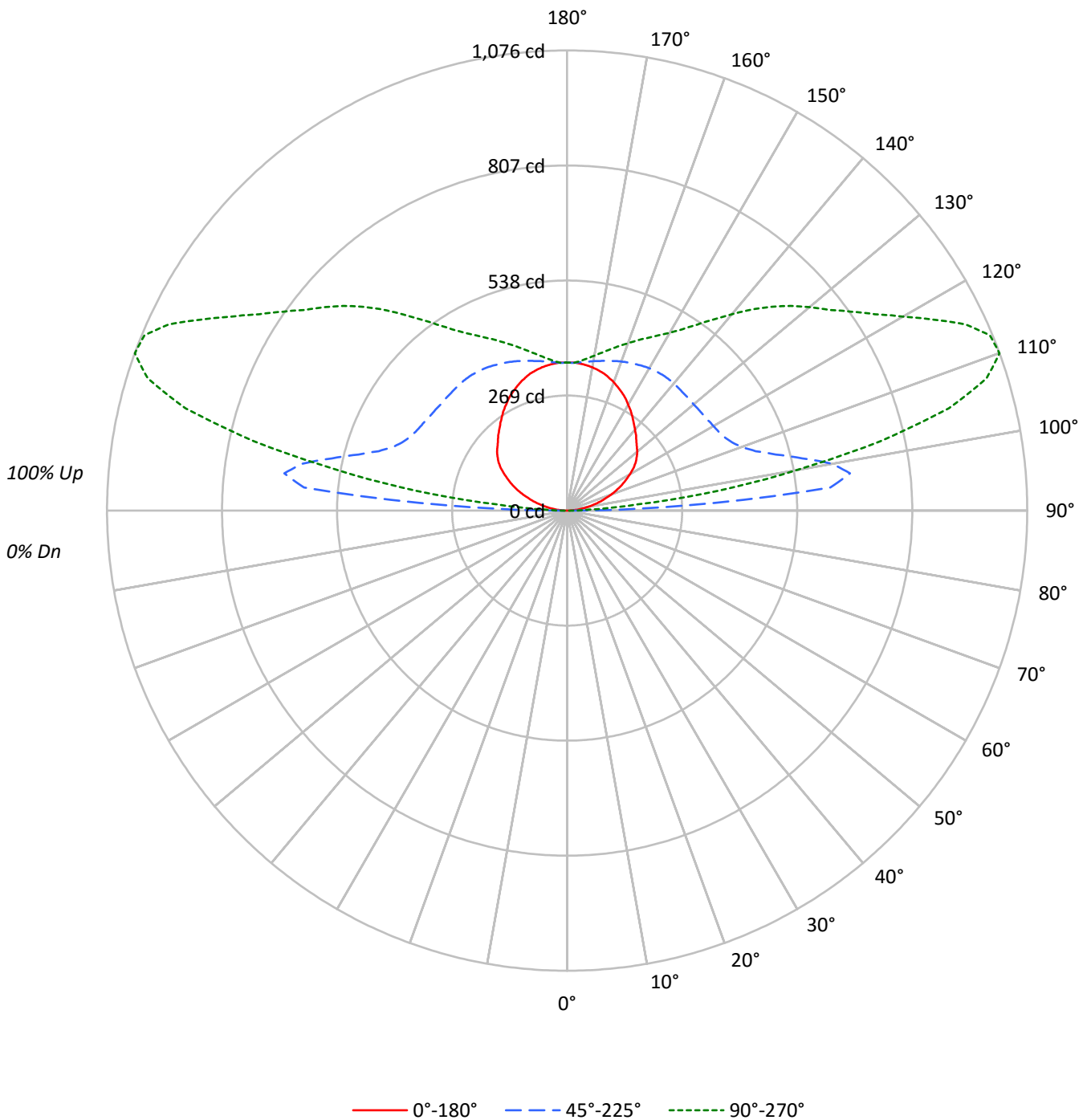
Lumens per Lamp: N/A
Luminaire Lumens: 2598.9 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Indirect

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°	1.4	0.1
90°-100°	251.6	9.7
100°-110°	542.5	20.9
110°-120°	505.7	19.5
120°-130°	409.6	15.8
130°-140°	328.9	12.7
140°-150°	248.1	9.5
150°-160°	174.7	6.7
160°-170°	103.0	4.0
170°-180°	33.5	1.3
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.4	0.1
90°-120°	1299.8	50.0
90°-150°	2286.3	88.0
90°-180°	2597.0	99.9
0°-180°	2598.9	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	15	16	2
95°	23	68	618	280	164	24
105°	79	110	506	995	924	83
115°	141	170	406	875	1029	139
125°	195	229	389	696	811	173
135°	229	275	386	583	674	177
145°	266	305	388	483	531	167
155°	304	327	378	427	446	140
165°	332	341	363	385	390	93
175°	345	345	348	352	351	33
180°	346	346	346	346	346	



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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	1.4	2.8	4.2	5.6	7.0	7.7	9.1	9.8	11.2	11.9
92.5°	10.5	12.6	19.5	30.0	44.6	69.7	117.1	196.6	283.1	278.2	224.5
95°	23.0	23.7	29.3	37.0	52.3	83.7	158.3	311.7	504.1	617.7	604.5
97.5°	35.6	36.3	40.4	48.1	62.1	85.1	136.7	254.5	462.3	667.2	755.1
100°	48.8	50.2	53.0	60.7	73.9	94.8	135.3	225.9	401.6	629.6	803.9
102.5°	63.4	64.1	66.2	74.6	86.5	106.7	141.5	214.0	355.6	563.4	774.6
105°	78.8	78.8	82.3	89.2	100.4	119.9	150.6	212.7	329.1	505.5	705.6
107.5°	93.4	94.8	98.3	103.9	115.7	133.2	163.2	217.5	315.1	462.3	640.1
110°	109.5	110.9	113.6	119.9	130.4	148.5	177.1	225.2	309.6	433.7	585.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	125.5	126.9	129.0	135.3	145.7	163.2	190.3	235.0	309.6	416.9	545.2
115°	140.8	142.2	144.3	150.6	161.1	178.5	204.3	244.7	311.7	405.8	518.0
117.5°	154.8	156.9	159.0	165.2	177.1	193.8	218.2	255.9	315.1	399.5	499.9
120°	168.7	170.8	173.6	179.9	191.7	209.2	233.6	267.0	320.7	395.3	485.3
122.5°	183.4	184.8	186.9	193.1	206.4	223.8	248.2	279.6	325.6	391.8	472.7
125°	195.2	196.6	200.1	206.4	219.6	237.8	260.8	290.7	331.2	389.1	461.6
127.5°	205.0	207.1	211.3	218.9	232.9	251.0	273.3	301.2	337.5	387.7	451.1
130°	214.0	216.1	221.7	230.8	245.4	263.6	285.2	311.7	343.0	386.3	440.6
132.5°	221.0	223.8	230.8	241.2	256.6	274.7	296.3	320.7	349.3	386.3	432.3
135°	228.7	231.5	239.8	251.0	265.6	284.5	306.1	329.1	354.9	386.3	426.0
137.5°	238.5	240.5	248.2	259.4	274.0	293.5	313.1	335.4	360.5	387.0	419.7
140°	246.8	248.9	257.3	268.4	281.7	300.5	320.7	341.6	364.0	387.7	415.5
142.5°	256.6	258.0	265.6	276.8	289.3	306.8	325.6	345.1	366.0	388.4	412.1
145°	266.3	267.7	274.7	284.5	297.0	313.1	331.2	348.6	367.4	387.7	408.6
147.5°	276.8	277.5	283.8	292.8	304.0	318.6	334.7	350.7	368.1	386.3	405.1
150°	285.9	287.3	292.1	301.2	311.0	322.8	338.2	352.8	368.1	384.2	400.9
152.5°	295.6	296.3	300.5	308.2	317.2	327.7	341.6	354.2	367.4	381.4	396.0
155°	304.0	304.0	308.2	315.1	322.1	331.9	343.7	354.9	366.0	377.9	390.4
157.5°	311.7	311.7	315.1	321.4	327.7	335.4	345.8	355.6	364.6	374.4	385.6
160°	319.3	318.6	321.4	326.3	331.9	338.2	347.2	355.6	362.6	370.9	379.3
162.5°	325.6	324.9	327.7	331.9	336.1	340.9	348.6	354.9	360.5	366.7	373.7
165°	331.9	330.5	332.6	336.1	338.9	343.0	348.6	354.2	358.4	362.6	368.1
167.5°	336.1	335.4	336.8	338.9	340.9	343.7	348.6	352.8	354.9	358.4	362.6
170°	340.2	339.5	340.2	341.6	343.0	345.1	348.6	351.4	352.8	354.9	357.7
172.5°	343.0	341.6	342.3	343.7	344.4	345.1	347.9	350.0	350.0	350.7	352.8
175°	345.1	343.7	344.4	345.1	345.1	345.1	347.2	348.6	347.9	347.9	348.6
177.5°	346.5	345.1	345.1	345.8	345.1	345.1	346.5	347.2	345.8	345.8	346.5
180°	345.8	345.8	345.8	345.8	345.8	345.8	345.8	345.8	345.8	345.8	345.8



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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°	12.6	13.2	13.9	15.3	15.3	15.3	16.0	16.0
92.5°	151.3	108.8	80.9	67.6	56.5	54.4	53.0	51.6
95°	501.3	395.3	309.6	251.0	201.5	180.6	175.0	163.8
97.5°	718.8	634.5	548.0	464.4	422.5	386.3	367.4	359.1
100°	857.6	823.4	751.6	679.1	631.0	580.8	555.0	543.8
102.5°	904.3	939.2	914.1	870.8	818.5	786.5	757.9	750.2
105°	872.9	968.4	999.1	991.5	969.1	946.1	932.2	923.8
107.5°	808.8	935.0	1008.9	1039.6	1045.8	1042.3	1035.4	1028.4
110°	736.3	868.7	967.0	1026.3	1057.7	1070.9	1075.8	1075.8



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	679.1	803.2	902.9	975.4	1024.9	1050.0	1064.0	1070.2
115°	633.1	741.1	836.7	912.7	967.0	1000.5	1020.0	1029.1
117.5°	601.0	696.5	780.2	852.0	907.1	941.9	961.5	967.0
120°	575.9	659.6	736.3	797.6	849.2	882.7	901.5	907.1
122.5°	557.1	633.1	699.3	755.8	800.4	830.4	849.2	854.1
125°	539.0	610.1	670.7	720.9	760.0	788.6	803.9	810.9
127.5°	520.1	587.8	644.9	692.3	727.9	753.7	768.3	771.1
130°	502.7	564.1	618.4	663.8	698.6	721.6	735.6	739.8
132.5°	485.3	541.7	589.9	633.1	667.9	690.9	703.5	708.4
135°	470.6	518.7	563.4	603.1	633.8	656.8	669.3	673.5
137.5°	457.4	497.8	536.2	571.0	598.9	620.5	632.4	637.3
140°	446.9	479.7	511.8	541.0	566.8	585.0	595.4	598.9
142.5°	437.9	464.4	490.8	515.2	536.2	550.8	560.6	563.4
145°	430.2	451.8	473.4	492.2	509.0	520.8	528.5	531.3
147.5°	422.5	440.6	458.1	472.7	486.7	496.4	501.3	502.7
150°	416.2	431.6	444.8	457.4	467.8	476.2	479.0	479.7
152.5°	409.3	422.5	434.4	443.4	451.8	458.1	460.9	461.6
155°	402.3	413.5	423.2	430.9	437.9	442.7	444.8	445.5
157.5°	395.3	405.1	412.8	419.0	424.6	428.8	430.9	430.9
160°	388.4	395.3	402.3	407.2	412.1	415.5	416.9	416.2
162.5°	380.7	387.0	392.5	396.7	400.2	403.0	403.0	403.0
165°	373.7	378.6	382.8	386.3	389.1	390.4	390.4	390.4
167.5°	366.7	370.2	373.7	376.5	377.9	379.3	378.6	378.6
170°	361.2	363.3	365.3	366.7	368.1	368.8	368.8	368.1
172.5°	354.9	357.0	358.4	359.1	359.1	360.5	359.1	358.4
175°	350.7	350.7	352.1	352.1	352.1	352.8	351.4	350.7
177.5°	347.2	347.9	347.9	347.9	347.2	347.9	345.8	345.8
180°	345.8	345.8	345.8	345.8	345.8	345.8	345.8	345.8

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