

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: P334967

Luminaire Tested: **S125IP-S810U830-4F0-1E-UDD-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334967
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-S810U830-4F0-1E-UDD-4
Description: DEFINE 5 INDIRECT LED LUMINAIRE, BATWING OPTIC
PENDANT MOUNT, 810 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

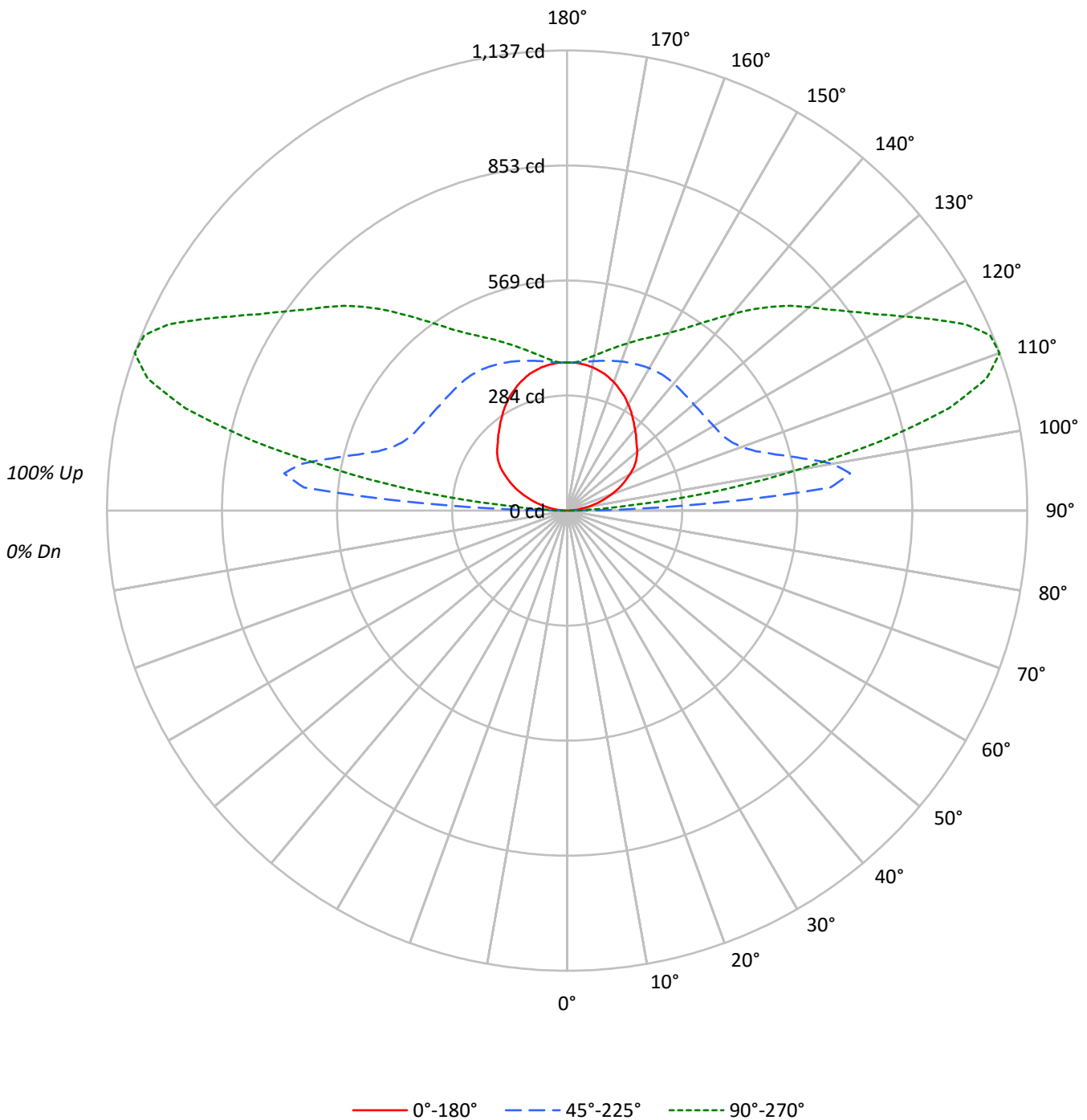
Lumens per Lamp: N/A
Luminaire Lumens: 2747.0 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Indirect

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°	1.5	0.1
90°-100°	265.9	9.7
100°-110°	573.4	20.9
110°-120°	534.6	19.5
120°-130°	433.0	15.8
130°-140°	347.6	12.7
140°-150°	262.2	9.5
150°-160°	184.7	6.7
160°-170°	108.8	4.0
170°-180°	35.4	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°	1373.9	50.0
90°-150°	2416.7	88.0
90°-180°	2746.0	100.0
0°-180°	2747.0	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	12	15	17	2
95°	24	72	653	296	173	25
105°	83	116	534	1052	976	88
115°	149	179	429	925	1088	147
125°	206	242	411	736	857	183
135°	242	291	408	616	712	188
145°	282	322	410	510	562	176
155°	321	346	399	451	471	148
165°	351	360	383	406	413	99
175°	365	365	368	372	371	35
180°	366	366	366	366	366	



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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	1.5	2.9	4.4	5.9	7.4	8.1	9.6	10.3	11.8	12.5
92.5°	11.1	13.3	20.6	31.7	47.2	73.7	123.8	207.8	299.2	294.1	237.3
95°	24.3	25.1	31.0	39.1	55.3	88.4	167.3	329.4	532.8	653.0	639.0
97.5°	37.6	38.3	42.7	50.9	65.6	89.9	144.4	269.0	488.6	705.3	798.1
100°	51.6	53.1	56.0	64.1	78.1	100.2	143.0	238.8	424.5	665.5	849.7
102.5°	67.1	67.8	70.0	78.9	91.4	112.8	149.6	226.2	375.9	595.5	818.8
105°	83.3	83.3	87.0	94.3	106.1	126.8	159.2	224.8	347.8	534.3	745.8
107.5°	98.8	100.2	103.9	109.8	122.3	140.8	172.5	229.9	333.1	488.6	676.5
110°	115.7	117.2	120.1	126.8	137.8	157.0	187.2	238.0	327.2	458.4	619.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	132.7	134.1	136.3	143.0	154.0	172.5	201.2	248.4	327.2	440.7	576.3
115°	148.9	150.3	152.6	159.2	170.2	188.7	215.9	258.7	329.4	428.9	547.6
117.5°	163.6	165.8	168.0	174.7	187.2	204.9	230.7	270.5	333.1	422.3	528.4
120°	178.3	180.6	183.5	190.1	202.7	221.1	246.9	282.3	339.0	417.9	512.9
122.5°	193.8	195.3	197.5	204.1	218.1	236.6	262.4	295.5	344.2	414.2	499.7
125°	206.4	207.8	211.5	218.1	232.1	251.3	275.6	307.3	350.1	411.2	487.9
127.5°	216.7	218.9	223.3	231.4	246.1	265.3	288.9	318.4	356.7	409.8	476.8
130°	226.2	228.5	234.4	243.9	259.4	278.6	301.4	329.4	362.6	408.3	465.8
132.5°	233.6	236.6	243.9	255.0	271.2	290.4	313.2	339.0	369.2	408.3	456.9
135°	241.7	244.7	253.5	265.3	280.8	300.7	323.5	347.8	375.1	408.3	450.3
137.5°	252.0	254.3	262.4	274.2	289.6	310.3	330.9	354.5	381.0	409.0	443.7
140°	260.9	263.1	271.9	283.7	297.7	317.6	339.0	361.1	384.7	409.8	439.2
142.5°	271.2	272.7	280.8	292.6	305.8	324.3	344.2	364.8	386.9	410.5	435.5
145°	281.5	283.0	290.4	300.7	313.9	330.9	350.1	368.5	388.4	409.8	431.9
147.5°	292.6	293.3	299.9	309.5	321.3	336.8	353.7	370.7	389.1	408.3	428.2
150°	302.2	303.6	308.8	318.4	328.7	341.2	357.4	372.9	389.1	406.1	423.8
152.5°	312.5	313.2	317.6	325.7	335.3	346.4	361.1	374.4	388.4	403.1	418.6
155°	321.3	321.3	325.7	333.1	340.5	350.8	363.3	375.1	386.9	399.4	412.7
157.5°	329.4	329.4	333.1	339.7	346.4	354.5	365.5	375.9	385.4	395.8	407.5
160°	337.5	336.8	339.7	344.9	350.8	357.4	367.0	375.9	383.2	392.1	400.9
162.5°	344.2	343.4	346.4	350.8	355.2	360.4	368.5	375.1	381.0	387.6	395.0
165°	350.8	349.3	351.5	355.2	358.2	362.6	368.5	374.4	378.8	383.2	389.1
167.5°	355.2	354.5	356.0	358.2	360.4	363.3	368.5	372.9	375.1	378.8	383.2
170°	359.6	358.9	359.6	361.1	362.6	364.8	368.5	371.4	372.9	375.1	378.1
172.5°	362.6	361.1	361.9	363.3	364.1	364.8	367.7	370.0	370.0	370.7	372.9
175°	364.8	363.3	364.1	364.8	364.8	364.8	367.0	368.5	367.7	367.7	368.5
177.5°	366.3	364.8	364.8	365.5	364.8	364.8	366.3	367.0	365.5	365.5	366.3
180°	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5



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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°	13.3	14.0	14.7	16.2	16.2	16.2	17.0	17.0
92.5°	159.9	115.0	85.5	71.5	59.7	57.5	56.0	54.5
95°	529.9	417.9	327.2	265.3	213.0	190.9	185.0	173.2
97.5°	759.8	670.6	579.3	490.8	446.6	408.3	388.4	379.5
100°	906.5	870.4	794.5	717.8	667.0	613.9	586.6	574.8
102.5°	955.8	992.7	966.2	920.5	865.2	831.3	801.1	793.0
105°	922.7	1023.6	1056.1	1048.0	1024.4	1000.1	985.3	976.5
107.5°	854.9	988.3	1066.4	1098.8	1105.5	1101.8	1094.4	1087.0
110°	778.2	918.3	1022.2	1084.8	1118.0	1132.0	1137.1	1137.1



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	717.8	849.0	954.4	1031.0	1083.3	1109.9	1124.6	1131.2
115°	669.2	783.4	884.4	964.7	1022.2	1057.5	1078.2	1087.8
117.5°	635.3	736.2	824.7	900.6	958.8	995.6	1016.3	1022.2
120°	608.7	697.2	778.2	843.1	897.6	933.0	952.9	958.8
122.5°	588.8	669.2	739.2	798.9	846.0	877.7	897.6	902.8
125°	569.7	644.8	709.0	762.0	803.3	833.5	849.7	857.1
127.5°	549.8	621.3	681.7	731.8	769.4	796.7	812.1	815.1
130°	531.4	596.2	653.7	701.6	738.4	762.8	777.5	781.9
132.5°	512.9	572.6	623.5	669.2	706.0	730.3	743.6	748.8
135°	497.5	548.3	595.5	637.5	669.9	694.2	707.5	711.9
137.5°	483.5	526.2	566.7	603.6	633.1	655.9	668.4	673.6
140°	472.4	507.0	540.9	571.9	599.2	618.3	629.4	633.1
142.5°	462.8	490.8	518.8	544.6	566.7	582.2	592.5	595.5
145°	454.7	477.6	500.4	520.3	538.0	550.5	558.6	561.6
147.5°	446.6	465.8	484.2	499.7	514.4	524.7	529.9	531.4
150°	440.0	456.2	470.2	483.5	494.5	503.3	506.3	507.0
152.5°	432.6	446.6	459.1	468.7	477.6	484.2	487.1	487.9
155°	425.2	437.0	447.3	455.4	462.8	468.0	470.2	470.9
157.5°	417.9	428.2	436.3	442.9	448.8	453.2	455.4	455.4
160°	410.5	417.9	425.2	430.4	435.5	439.2	440.7	440.0
162.5°	402.4	409.0	414.9	419.3	423.0	426.0	426.0	426.0
165°	395.0	400.2	404.6	408.3	411.2	412.7	412.7	412.7
167.5°	387.6	391.3	395.0	398.0	399.4	400.9	400.2	400.2
170°	381.7	384.0	386.2	387.6	389.1	389.9	389.9	389.1
172.5°	375.1	377.3	378.8	379.5	379.5	381.0	379.5	378.8
175°	370.7	370.7	372.2	372.2	372.2	372.9	371.4	370.7
177.5°	367.0	367.7	367.7	367.7	367.0	367.7	365.5	365.5
180°	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5

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