

Scaled data based on original data using  
LM-66-11 Electrical and Photometric Measurements of Single-Ended Compact  
Fluorescent Lamps

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: SHAPER

Report Number: 253P153

Luminaire Tested: **1270-44-CFL/4/27**

Issue Date: 3/3/2020

**Test Information**

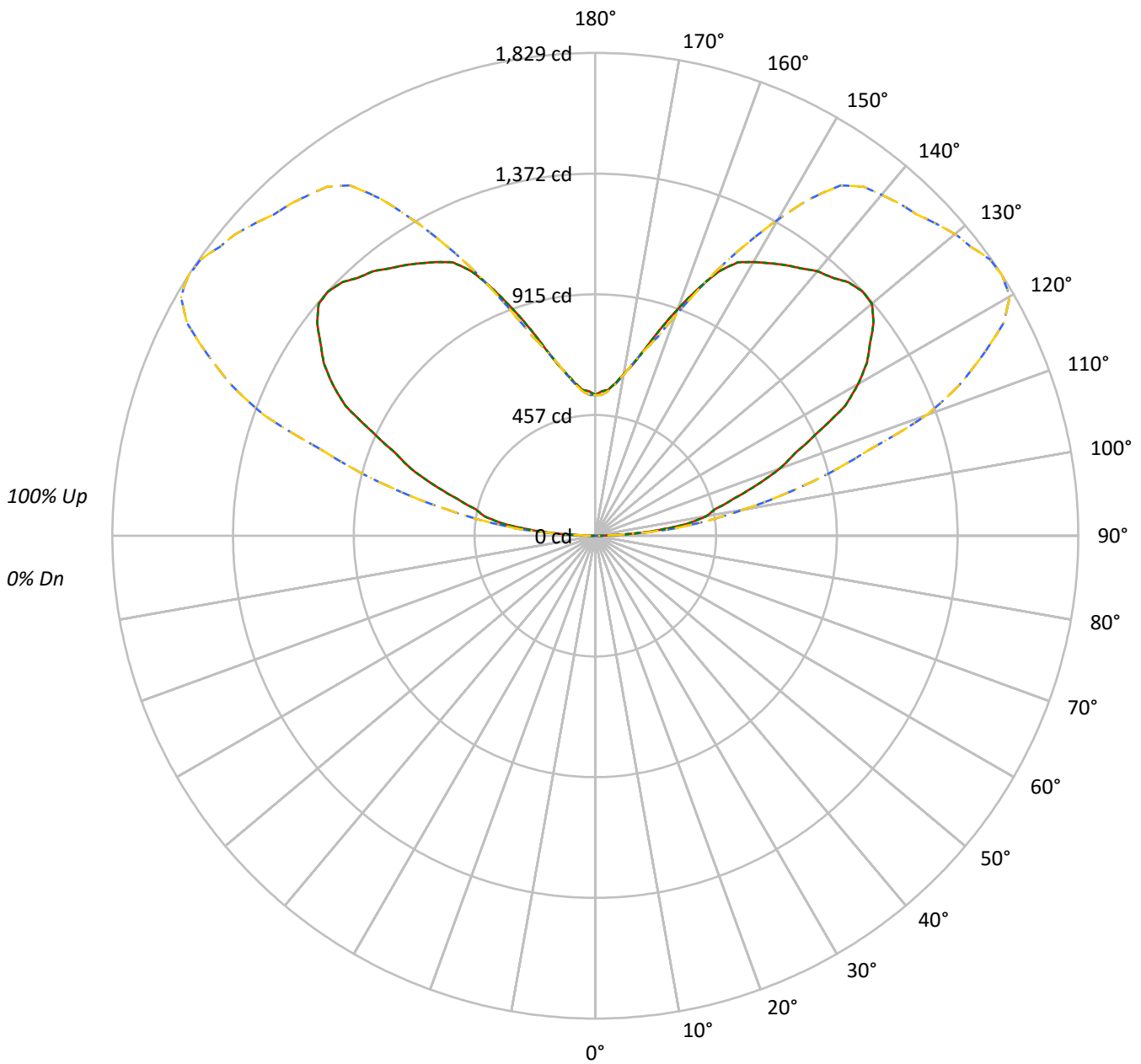
Test Method: LM-66-11  
Report Number: 253P153  
Test Lab: METALUX LABORATORIES  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: SHAPER  
Catalog Number: 1270-44-CFL/4/27  
Description: SHAPER 44 INCH 1270 SERIES SOLID INDIRECT INTERIOR PENDANT FIXTURE  
Light Source: FOUR 24 WATT GX24 T4 COMPACT FLUORESCENT LAMPS  
(4)F24BX - 1800 LUMENS - 24 WATTS  
THIS FILE WAS PRORATED FROM TEST NO: 253P153  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 1800 (4 lamps)  
Luminaire Lumens: 6711.7 lumens  
Efficiency: 93.2%  
Efficacy: 69.9 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Vertical Cylinder (Dia: 3.67' x H: 0.1')  
CIE Type: Indirect  
  
Input Watts (W): 96  
Input Voltage (V): NR  
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

TEST NUMBER: 253P153  
CATALOG NUMBER: 1270-44-CFL/4/27

### Luminous Intensity Polar Plot



— 0°-180°    - - 45°-225°    - - - 90°-270°    - - - 135°-315°



TEST NUMBER: 253P153

CATALOG NUMBER: 1270-44-CFL/4/27

**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	89	89	89	89	76	76	76	76	52	52	52	30	30	30	10	10	10	0
1	81	77	74	71	69	66	63	61	45	43	42	26	25	24	8	8	8	0
2	73	67	62	58	63	57	53	50	39	37	35	23	21	20	7	7	7	0
3	67	59	53	48	57	50	45	41	35	32	29	20	18	17	6	6	6	0
4	61	52	45	40	52	44	39	35	31	27	24	18	16	14	6	5	5	0
5	56	46	39	34	47	39	34	29	27	24	21	16	14	12	5	5	4	0
6	51	41	34	29	43	35	29	25	24	21	18	14	12	11	5	4	4	0
7	47	37	30	25	40	31	26	22	22	18	15	13	11	9	4	3	3	0
8	43	33	26	22	37	28	23	19	20	16	13	11	9	8	4	3	3	0
9	40	30	23	19	34	26	20	17	18	14	12	10	8	7	3	3	2	0
10	37	27	21	17	32	23	18	15	16	13	10	9	8	6	3	2	2	0

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	0	0	0	0
5°	0	0	0	0
10°	0	0	0	0
15°	0	0	0	0
20°	0	0	0	0
25°	0	0	0	0
30°	0	0	0	0
35°	0	0	0	0
40°	0	0	0	0
45°	0	0	0	0
50°	0	0	0	0
55°	0	0	0	0
60°	0	0	0	0
65°	0	0	0	0
70°	0	0	0	0
75°	0	0	0	0
80°	0	0	0	0
85°	0	0	0	0



TEST NUMBER: 253P153

CATALOG NUMBER: 1270-44-CFL/4/27

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	0.0	0.0	0.0
10°-20°	0.0	0.0	0.0
20°-30°	0.0	0.0	0.0
30°-40°	0.0	0.0	0.0
40°-50°	0.0	0.0	0.0
50°-60°	0.0	0.0	0.0
60°-70°	0.0	0.0	0.0
70°-80°	0.0	0.0	0.0
80°-90°	0.6	0.0	0.0
90°-100°	282.2	4.2	3.9
100°-110°	847.7	12.6	11.8
110°-120°	1285.2	19.1	17.9
120°-130°	1422.2	21.2	19.8
130°-140°	1209.4	18.0	16.8
140°-150°	877.9	13.1	12.2
150°-160°	517.1	7.7	7.2
160°-170°	214.4	3.2	3.0
170°-180°	54.9	0.8	0.8
0°-30°	0.0	0.0	0.0
0°-40°	0.0	0.0	0.0
0°-60°	0.0	0.0	0.0
0°-90°	0.6	0.0	0.0
90°-120°	2415.1	36.0	33.5
90°-150°	5924.6	88.3	82.3
90°-180°	6711.0	100.0	93.2
0°-180°	6711.7	100.0	93.2

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	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°	2	2	2	2	2	14
95°	238	238	238	238	238	231
105°	543	543	543	543	543	589
115°	931	931	931	931	931	931
125°	1270	1270	1270	1270	1270	1137
135°	1357	1357	1357	1357	1357	1045
145°	1252	1252	1252	1252	1252	787
155°	1103	1103	1103	1103	1103	506
165°	734	734	734	734	734	216
175°	555	555	555	555	555	55
180°	533	533	533	533	533	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
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°	2.0	6.0	4.0	6.0	2.0	6.0	4.0	6.0	2.0	6.0	4.0
92.5°	94.9	83.4	93.7	102.9	94.9	83.4	93.7	102.9	94.9	83.4	93.7
95°	237.7	253.1	282.9	277.1	237.7	253.1	282.9	277.1	237.7	253.1	282.9
97.5°	353.1	414.3	421.1	448.0	353.1	414.3	421.1	448.0	353.1	414.3	421.1
100°	425.7	575.4	568.6	586.9	425.7	575.4	568.6	586.9	425.7	575.4	568.6
102.5°	464.6	721.7	740.0	737.7	464.6	721.7	740.0	737.7	464.6	721.7	740.0
105°	542.9	868.6	918.9	870.9	542.9	868.6	918.9	870.9	542.9	868.6	918.9
107.5°	641.7	1013.7	1091.4	1010.3	641.7	1013.7	1091.4	1010.3	641.7	1013.7	1091.4
110°	742.9	1112.0	1333.7	1114.3	742.9	1112.0	1333.7	1114.3	742.9	1112.0	1333.7



TEST NUMBER: 253P153

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	819.4	1198.9	1493.1	1209.1	819.4	1198.9	1493.1	1209.1	819.4	1198.9	1493.1
115°	931.4	1311.4	1618.3	1347.4	931.4	1311.4	1618.3	1347.4	931.4	1311.4	1618.3
117.5°	1066.9	1412.0	1742.3	1468.0	1066.9	1412.0	1742.3	1468.0	1066.9	1412.0	1742.3
120°	1149.1	1486.9	1811.4	1536.6	1149.1	1486.9	1811.4	1536.6	1149.1	1486.9	1811.4
122.5°	1219.4	1562.3	1828.6	1619.4	1219.4	1562.3	1828.6	1619.4	1219.4	1562.3	1828.6
125°	1270.3	1632.0	1824.6	1678.9	1270.3	1632.0	1824.6	1678.9	1270.3	1632.0	1824.6
127.5°	1328.0	1673.1	1795.4	1709.1	1328.0	1673.1	1795.4	1709.1	1328.0	1673.1	1795.4
130°	1367.4	1661.7	1778.3	1695.4	1367.4	1661.7	1778.3	1695.4	1367.4	1661.7	1778.3
132.5°	1370.9	1625.7	1749.7	1650.3	1370.9	1625.7	1749.7	1650.3	1370.9	1625.7	1749.7
135°	1357.1	1571.4	1721.1	1588.6	1357.1	1571.4	1721.1	1588.6	1357.1	1571.4	1721.1
137.5°	1326.3	1525.7	1706.3	1538.9	1326.3	1525.7	1706.3	1538.9	1326.3	1525.7	1706.3
140°	1308.0	1466.9	1685.7	1480.0	1308.0	1466.9	1685.7	1480.0	1308.0	1466.9	1685.7
142.5°	1276.6	1412.0	1666.9	1424.0	1276.6	1412.0	1666.9	1424.0	1276.6	1412.0	1666.9
145°	1252.0	1364.6	1620.0	1370.3	1252.0	1364.6	1620.0	1370.3	1252.0	1364.6	1620.0
147.5°	1224.0	1314.3	1513.1	1322.9	1224.0	1314.3	1513.1	1322.9	1224.0	1314.3	1513.1
150°	1197.1	1272.6	1382.3	1279.4	1197.1	1272.6	1382.3	1279.4	1197.1	1272.6	1382.3
152.5°	1167.4	1208.6	1250.3	1213.7	1167.4	1208.6	1250.3	1213.7	1167.4	1208.6	1250.3
155°	1103.4	1110.9	1124.6	1113.7	1103.4	1110.9	1124.6	1113.7	1103.4	1110.9	1124.6
157.5°	1009.7	1005.7	998.9	1010.9	1009.7	1005.7	998.9	1010.9	1009.7	1005.7	998.9
160°	913.1	906.3	885.1	914.9	913.1	906.3	885.1	914.9	913.1	906.3	885.1
162.5°	821.7	810.3	792.0	814.3	821.7	810.3	792.0	814.3	821.7	810.3	792.0
165°	733.7	726.3	728.0	726.9	733.7	726.3	728.0	726.9	733.7	726.3	728.0
167.5°	666.9	665.1	672.0	665.7	666.9	665.1	672.0	665.7	666.9	665.1	672.0
170°	621.1	618.9	618.9	619.4	621.1	618.9	618.9	619.4	621.1	618.9	618.9
172.5°	582.3	580.0	577.7	580.6	582.3	580.0	577.7	580.6	582.3	580.0	577.7
175°	554.9	550.9	549.1	553.1	554.9	550.9	549.1	553.1	554.9	550.9	549.1
177.5°	548.0	534.9	533.7	539.4	548.0	534.9	533.7	539.4	548.0	534.9	533.7
180°	532.6	532.6	532.6	532.6	532.6	532.6	532.6	532.6	532.6	532.6	532.6



TEST NUMBER: 253P153

CATALOG NUMBER: 1270-44-CFL/4/27

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
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
5°	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
10°	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
15°	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
20°	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
25°	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
30°	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
35°	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
40°	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
45°	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
50°	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
55°	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
60°	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
65°	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
70°	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
75°	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
80°	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
85°	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
90°	6.0	2.0	6.0	4.0	6.0	2.0
92.5°	102.9	94.9	83.4	93.7	102.9	94.9
95°	277.1	237.7	253.1	282.9	277.1	237.7
97.5°	448.0	353.1	414.3	421.1	448.0	353.1
100°	586.9	425.7	575.4	568.6	586.9	425.7
102.5°	737.7	464.6	721.7	740.0	737.7	464.6
105°	870.9	542.9	868.6	918.9	870.9	542.9
107.5°	1010.3	641.7	1013.7	1091.4	1010.3	641.7
110°	1114.3	742.9	1112.0	1333.7	1114.3	742.9





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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	1209.1	819.4	1198.9	1493.1	1209.1	819.4
115°	1347.4	931.4	1311.4	1618.3	1347.4	931.4
117.5°	1468.0	1066.9	1412.0	1742.3	1468.0	1066.9
120°	1536.6	1149.1	1486.9	1811.4	1536.6	1149.1
122.5°	1619.4	1219.4	1562.3	1828.6	1619.4	1219.4
125°	1678.9	1270.3	1632.0	1824.6	1678.9	1270.3
127.5°	1709.1	1328.0	1673.1	1795.4	1709.1	1328.0
130°	1695.4	1367.4	1661.7	1778.3	1695.4	1367.4
132.5°	1650.3	1370.9	1625.7	1749.7	1650.3	1370.9
135°	1588.6	1357.1	1571.4	1721.1	1588.6	1357.1
137.5°	1538.9	1326.3	1525.7	1706.3	1538.9	1326.3
140°	1480.0	1308.0	1466.9	1685.7	1480.0	1308.0
142.5°	1424.0	1276.6	1412.0	1666.9	1424.0	1276.6
145°	1370.3	1252.0	1364.6	1620.0	1370.3	1252.0
147.5°	1322.9	1224.0	1314.3	1513.1	1322.9	1224.0
150°	1279.4	1197.1	1272.6	1382.3	1279.4	1197.1
152.5°	1213.7	1167.4	1208.6	1250.3	1213.7	1167.4
155°	1113.7	1103.4	1110.9	1124.6	1113.7	1103.4
157.5°	1010.9	1009.7	1005.7	998.9	1010.9	1009.7
160°	914.9	913.1	906.3	885.1	914.9	913.1
162.5°	814.3	821.7	810.3	792.0	814.3	821.7
165°	726.9	733.7	726.3	728.0	726.9	733.7
167.5°	665.7	666.9	665.1	672.0	665.7	666.9
170°	619.4	621.1	618.9	618.9	619.4	621.1
172.5°	580.6	582.3	580.0	577.7	580.6	582.3
175°	553.1	554.9	550.9	549.1	553.1	554.9
177.5°	539.4	548.0	534.9	533.7	539.4	548.0
180°	532.6	532.6	532.6	532.6	532.6	532.6

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