

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: STREETWORKS

Report Number: P477363

Luminaire Tested: **IFLD-L-SA7B-735-U-T3**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477363  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7B-735-U-T3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens  
Light Source: (112) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

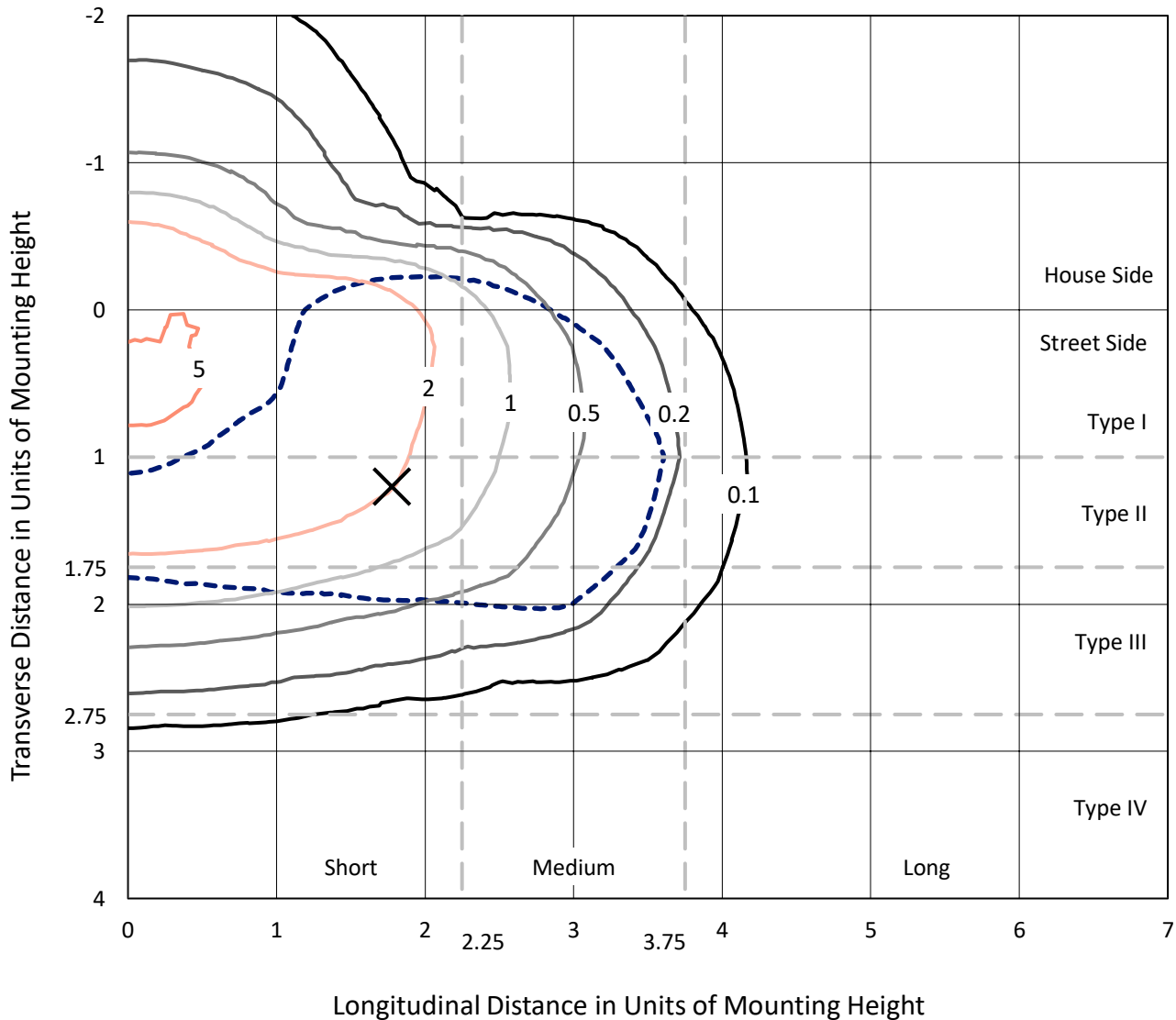
Lumens per Lamp: N/A  
Luminaire Lumens: 35774.7 lumens  
Efficiency: N/A  
Efficacy: 127.3 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 281  
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: 24 FT

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### Iso-Footcandle Lines of Horizontal Illumination

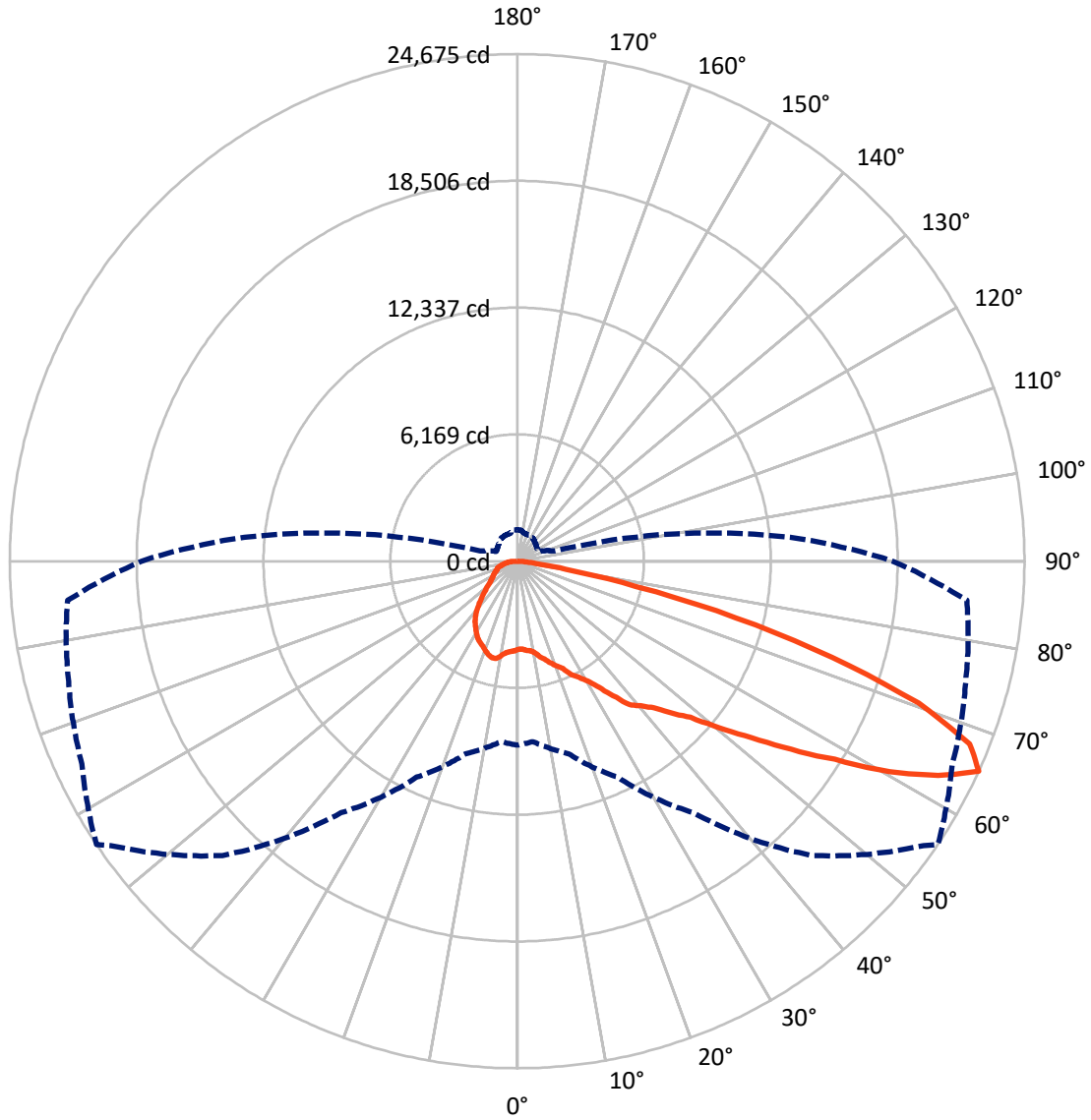
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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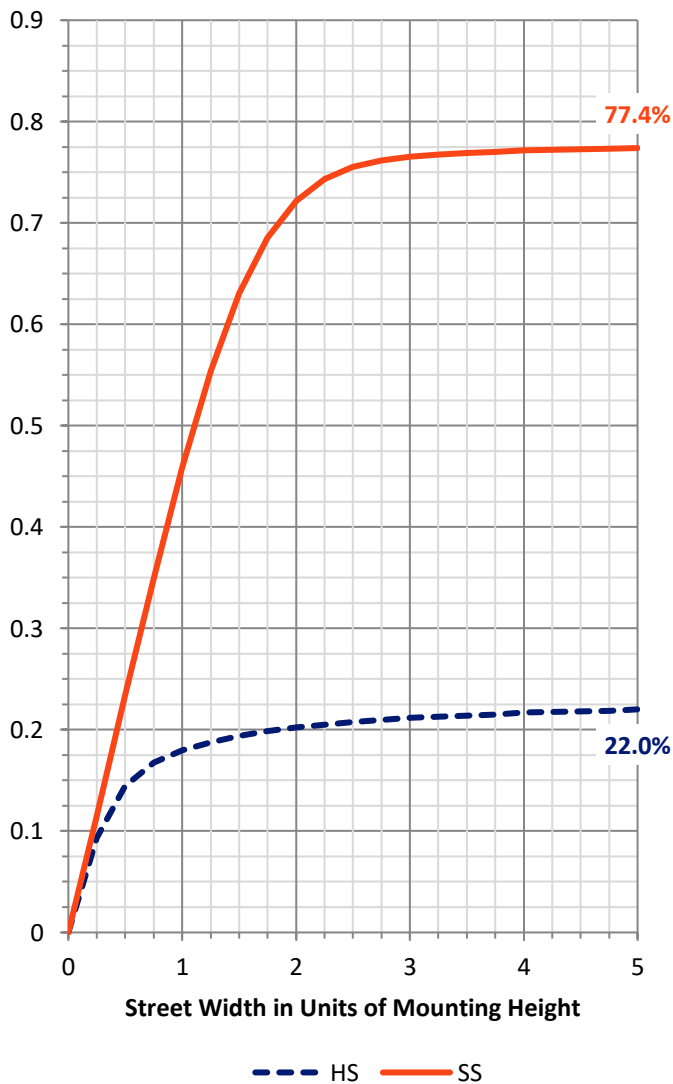
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8023.1	0.0	8023.1
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	27751.6	0.0	27751.6
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	35774.7	0.0	35774.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	425.5	1.2
10°-20°	1381.7	3.9
20°-30°	2460.2	6.9
30°-40°	3684.1	10.3
40°-50°	5458.5	15.3
50°-60°	8410.8	23.5
60°-70°	9522.0	26.6
70°-80°	3951.7	11.0
80°-90°	480.1	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	35774.7	100.0
0°-180°	35774.7	100.0

**Coefficient of Utilization**

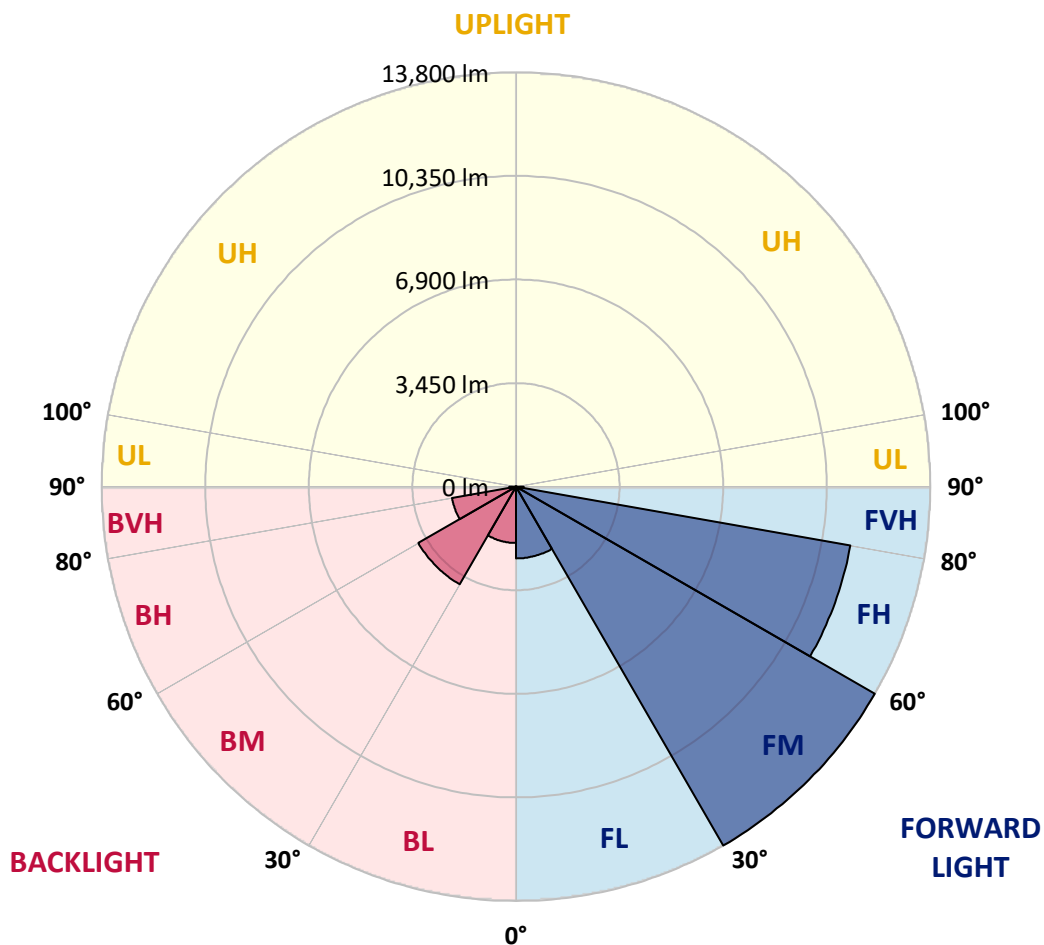


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2390.8	6.7			
FM (30°-60°)	13800.3	38.6			
FH (60°-80°)	11307.3	31.6			G4/12000
FVH (80°-90°)	253.2	0.7			G3/500
BL (0°-30°)	1876.7	5.2	B3/2500		
BM (30°-60°)	3753.1	10.5	B3/5000		
BH (60°-80°)	2166.5	6.1	B3/2500		G3/2500
BVH (80°-90°)	226.9	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	4294.0	4294.0	4294.0	4294.0	4294.0	4294.0	4294.0	4294.0	4294.0	4294.0
2.5°	4181.7	4204.1	4189.2	4234.1	4271.5	4271.5	4301.5	4279.0	4309.0	4350.1
5°	4320.2	4230.3	4279.0	4301.5	4290.2	4309.0	4279.0	4353.9	4305.2	4383.8
7.5°	4353.9	4387.6	4428.8	4391.3	4425.0	4406.3	4410.0	4398.8	4372.6	4436.2
10°	4601.0	4552.3	4645.9	4589.7	4582.2	4574.8	4559.8	4503.6	4567.3	4571.0
12.5°	4885.5	4840.6	4836.8	4791.9	4851.8	4743.2	4765.7	4735.7	4747.0	4761.9
15°	5091.4	5072.7	5158.8	5106.4	5027.7	4979.1	5031.5	4949.1	4990.3	4982.8
17.5°	5499.4	5495.7	5432.1	5346.0	5301.0	5229.9	5218.7	5185.0	5214.9	5200.0
20°	5784.0	5825.1	5836.4	5735.3	5563.1	5484.5	5465.8	5439.5	5473.2	5462.0
22.5°	6218.2	6154.6	6203.3	6027.3	5963.7	5776.5	5709.1	5671.7	5832.6	5791.5
25°	6495.3	6562.6	6514.0	6454.1	6311.8	6079.7	6031.0	6113.4	6177.1	6132.1
27.5°	7120.5	7053.1	7008.1	6828.4	6734.9	6491.5	6435.4	6405.4	6420.4	6446.6
30°	7595.9	7633.3	7532.3	7405.0	7169.1	6922.0	6791.0	6764.8	6712.4	6667.5
32.5°	8273.5	8217.3	8157.5	8075.1	7872.9	7547.2	7419.9	7322.6	7165.4	6955.7
35°	8599.2	8760.2	8715.3	8494.4	8340.9	8217.3	8179.9	8030.2	7899.1	7569.7
37.5°	9142.0	9209.4	9145.8	9074.6	9003.5	8872.5	8827.6	8868.7	8610.4	8067.6
40°	9493.9	9636.2	9767.2	9568.8	9553.8	9580.0	9303.0	9254.3	8722.7	8438.2
42.5°	10212.7	10272.6	10298.8	10291.3	10377.4	10377.4	9849.6	9744.8	9366.7	9134.5
45°	11163.6	11212.3	11305.9	11373.3	11275.9	11324.6	10572.1	10530.9	10194.0	10149.1
47.5°	11987.2	12103.3	12312.9	12511.3	12638.6	12473.9	11650.3	11358.3	11272.2	11541.7
50°	12706.0	12567.5	13057.9	13260.1	13817.9	14091.2	12840.8	12724.7	12586.2	13102.8
52.5°	12777.1	12964.3	13656.9	14061.2	15210.5	15715.9	14300.8	14252.1	14083.7	14678.9
55°	13286.3	13263.8	13960.1	14836.2	16202.6	17052.4	16202.6	16172.6	15805.8	16371.1
57.5°	13200.2	13428.5	13978.9	15203.0	17097.3	18486.2	18407.6	18201.7	17688.8	18149.3
60°	12908.2	12968.1	13638.2	15191.8	17617.7	19957.5	20788.6	20829.8	19781.5	20148.4
62.5°	11253.5	11392.0	12241.8	13997.6	17247.1	20972.0	23113.4	22967.4	22128.8	21709.5
65°	8951.1	8812.6	9696.1	11594.1	14941.0	20253.2	24131.7	24674.5	23356.7	22589.3
67.5°	5488.2	5454.5	6304.3	7977.8	11178.6	17235.8	23319.3	23742.3	23016.1	22402.1
70°	2826.5	2740.4	3272.0	4451.2	7026.9	12646.1	20294.4	20710.0	21402.5	20092.3
72.5°	1317.8	1299.1	1583.6	2190.0	3578.9	7434.9	15715.9	16015.4	17475.4	16940.1
75°	774.9	786.2	947.1	1145.6	1744.5	3504.1	10429.9	11010.1	12593.7	12208.1
77.5°	580.3	580.3	673.9	797.4	1018.3	1355.2	5147.5	5915.0	7363.8	6622.5
80°	426.8	434.3	516.6	599.0	707.6	700.1	2044.0	2395.9	3376.8	2886.4
82.5°	333.2	344.4	400.6	445.5	497.9	423.0	838.6	902.2	1388.9	1104.4
85°	232.1	239.6	314.5	303.2	303.2	235.9	348.2	366.9	550.3	524.1
87.5°	56.2	63.6	153.5	168.5	127.3	71.1	108.6	123.5	198.4	228.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4294.0	0°	4294.0	4294.0	4294.0	4294.0	4294.0	4294.0	4294.0	4294.0	4294.0	4294.0
4368.9	2.5°	4312.7	4327.7	4391.3	4357.6	4376.3	4297.7	4361.4	4309.0	4353.9	4331.4
4402.6	5°	4432.5	4398.8	4436.2	4410.0	4410.0	4440.0	4484.9	4451.2	4518.6	4488.7
4428.8	7.5°	4481.2	4484.9	4507.4	4511.1	4492.4	4586.0	4589.7	4578.5	4642.1	4627.2
4608.5	10°	4601.0	4604.7	4645.9	4668.4	4649.6	4683.3	4645.9	4615.9	4612.2	4597.2
4750.7	12.5°	4791.9	4829.3	4821.8	4840.6	4844.3	4702.0	4615.9	4469.9	4451.2	4469.9
4960.4	15°	4967.8	4952.9	4960.4	4997.8	4840.6	4612.2	4458.7	4335.2	4342.7	4346.4
5233.6	17.5°	5177.5	5188.7	5200.0	5027.7	4739.5	4469.9	4335.2	4335.2	4297.7	4312.7
5424.6	20°	5417.1	5372.2	5274.8	5031.5	4563.5	4305.2	4264.0	4264.0	4219.1	4189.2
5630.5	22.5°	5604.3	5514.4	5368.4	4915.4	4406.3	4241.6	4140.5	4069.4	4017.0	3957.1
5858.8	25°	5724.1	5675.4	5390.9	4795.6	4290.2	4073.1	3923.4	3814.8	3747.4	3668.8
6038.5	27.5°	5907.5	5813.9	5454.5	4657.1	4163.0	3904.6	3672.5	3504.1	3376.8	3294.4
6311.8	30°	6154.6	6019.8	5409.6	4458.7	3968.3	3612.6	3339.4	3122.2	2976.2	2908.8
6570.1	32.5°	6356.7	6180.8	5372.2	4279.0	3751.2	3316.9	2953.8	2732.9	2650.5	2564.4
7004.4	35°	6742.3	6394.2	5346.0	4177.9	3556.5	3021.1	2639.3	2448.4	2343.5	2216.3
7262.7	37.5°	7038.1	6764.8	5282.3	3968.3	3305.7	2732.9	2399.7	2227.5	2070.2	1935.5
7861.7	40°	7502.3	7281.4	5286.1	3672.5	3009.9	2485.8	2212.5	2032.8	1834.4	1718.3
8748.9	42.5°	8374.6	7790.6	5308.5	3436.7	2676.7	2283.6	2044.0	1830.7	1632.2	1534.9
9759.7	45°	9445.3	8490.6	5170.0	3223.3	2336.0	2092.7	1841.9	1628.5	1501.2	1430.1
11133.7	47.5°	10676.9	9175.7	4982.8	2822.7	2051.5	1890.6	1654.7	1531.2	1437.6	1396.4
12904.4	50°	12054.6	10156.6	4930.4	2455.8	1830.7	1718.3	1564.9	1471.3	1407.6	1359.0
14899.8	52.5°	13829.1	11298.4	4825.6	2077.7	1639.7	1579.8	1531.2	1467.5	1411.4	1370.2
16760.4	55°	15525.0	12563.7	4713.3	1767.0	1505.0	1512.4	1538.6	1482.5	1433.8	1370.2
18845.6	57.5°	17434.3	13855.3	4297.7	1538.6	1403.9	1478.7	1531.2	1467.5	1418.8	1370.2
20979.5	60°	18613.5	14581.6	3485.4	1340.2	1314.0	1415.1	1486.2	1418.8	1366.4	1385.2
21960.3	62.5°	19092.7	14199.7	2628.1	1216.7	1250.4	1329.0	1415.1	1388.9	1351.5	1422.6
21949.1	65°	18276.6	13320.0	1879.3	1111.9	1164.3	1242.9	1351.5	1381.4	1392.6	1531.2
20159.6	67.5°	16262.5	11597.9	1381.4	1025.8	1074.4	1190.5	1396.4	1445.1	1437.6	1609.8
16917.6	70°	13013.0	9070.9	1078.2	954.6	1040.7	1231.7	1460.0	1460.0	1407.6	1609.8
12904.4	72.5°	9467.7	6394.2	928.4	872.3	954.6	1130.6	1452.5	1448.8	1381.4	1471.3
8217.3	75°	5731.6	3721.2	819.9	789.9	819.9	969.6	1388.9	1366.4	1272.8	1265.4
3953.3	77.5°	2856.4	1871.8	670.1	700.1	715.0	812.4	1220.4	1254.1	1126.8	1096.9
1561.1	80°	1205.5	816.1	557.8	602.7	602.7	685.1	1014.5	1037.0	935.9	879.8
617.7	82.5°	550.3	468.0	475.4	524.1	490.4	531.6	804.9	831.1	760.0	666.4
262.1	85°	232.1	265.8	363.1	411.8	363.1	344.4	554.1	584.0	494.2	411.8
112.3	87.5°	104.8	146.0	228.4	299.5	183.4	161.0	295.7	307.0	247.1	183.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O





<u>180°</u>
4294.0
4290.2
4447.5
4604.7
4597.2
4477.4
4398.8
4316.4
4144.2
3923.4
3683.8
3331.9
2946.3
2560.7
2205.0
1939.2
1729.6
1542.4
1445.1
1388.9
1366.4
1366.4
1366.4
1366.4
1370.2
1403.9
1531.2
1621.0
1576.1
1418.8
1250.4
1078.2
861.0
651.4
415.5
172.2
0.0

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