

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: P477638

Luminaire Tested: **IFLD-L-SA7D-722-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477638
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-722-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (112) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

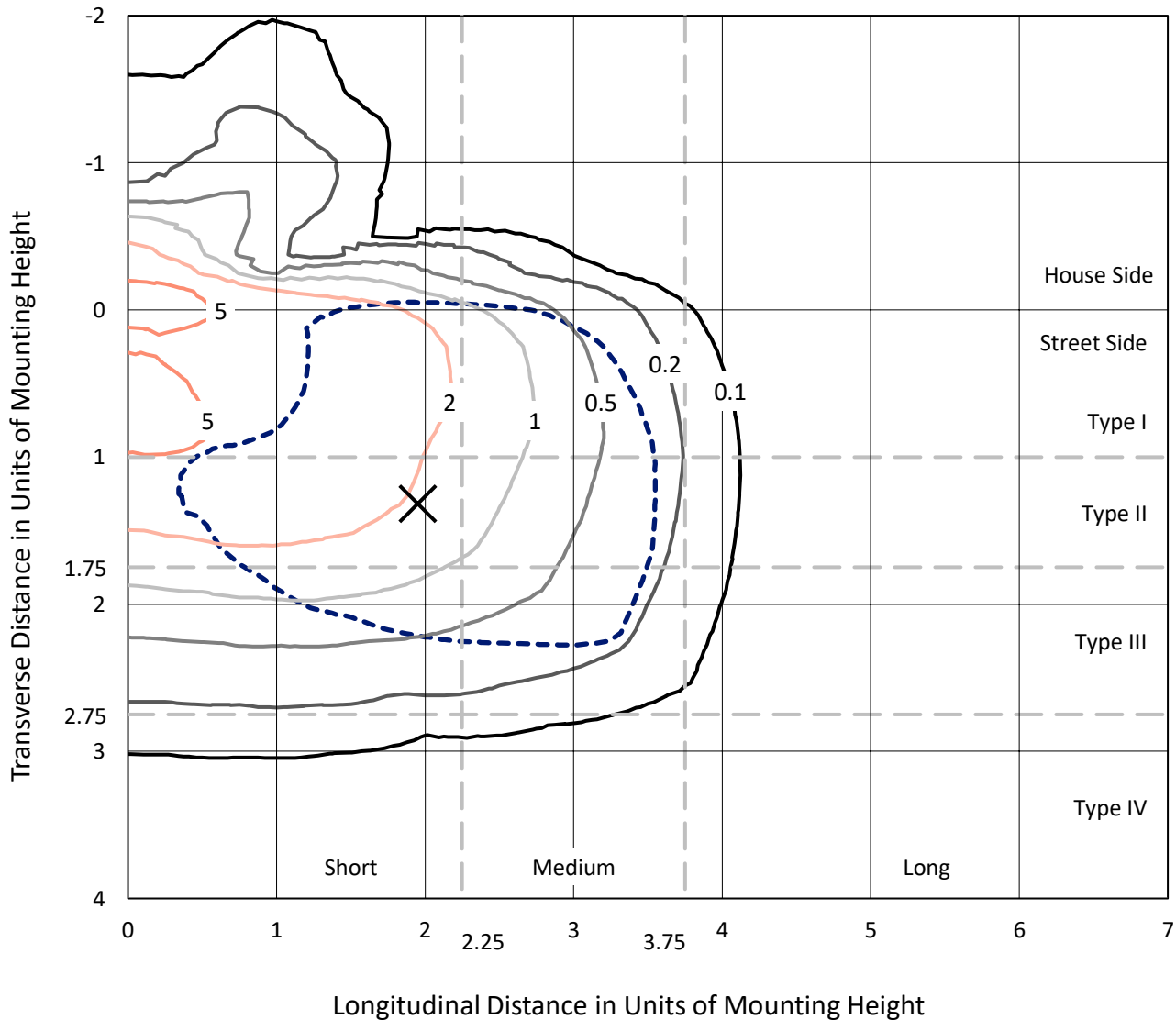
Lumens per Lamp: N/A
Luminaire Lumens: 35294.6 lumens
Efficiency: N/A
Efficacy: 83.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 422.6
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

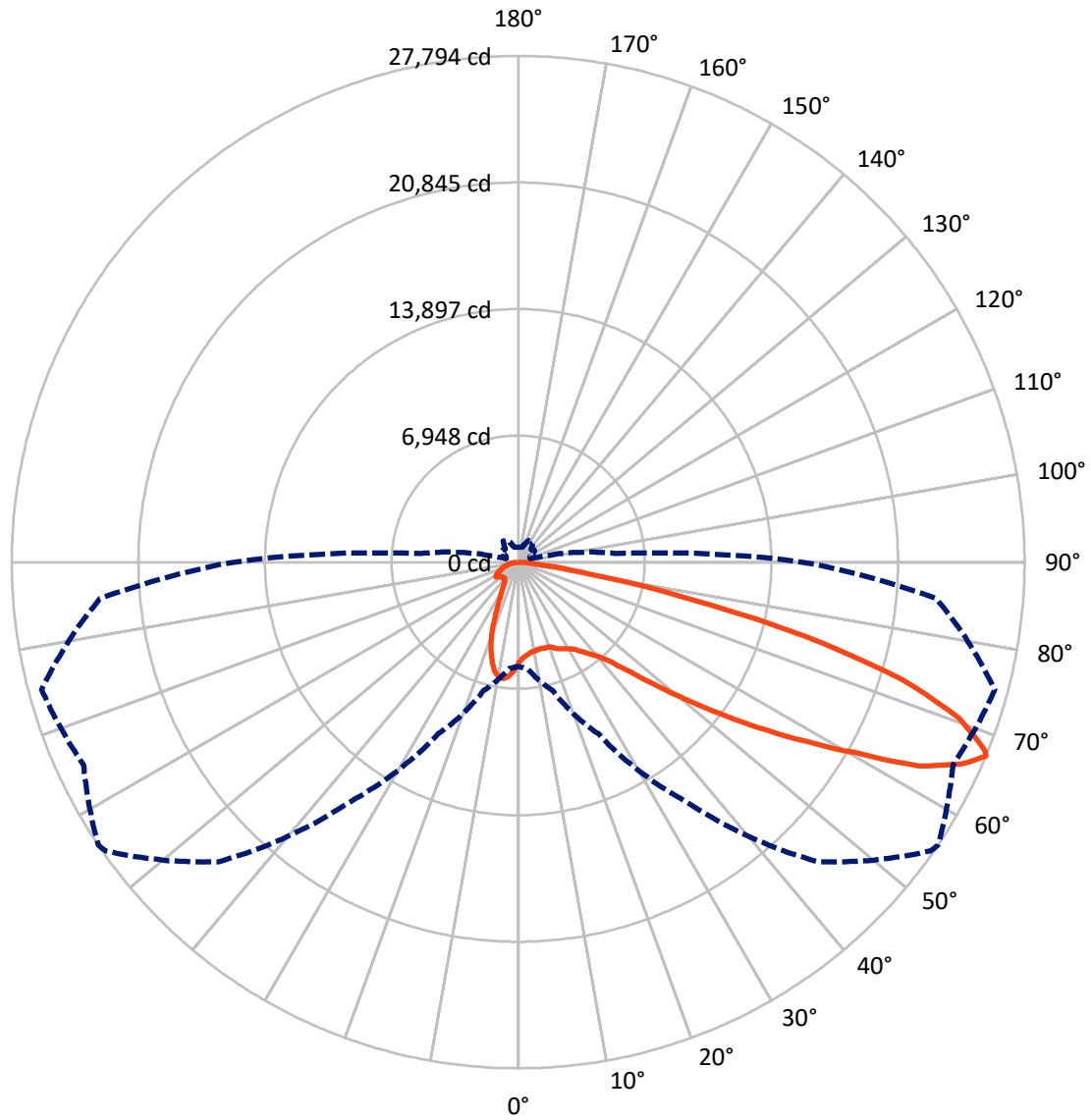
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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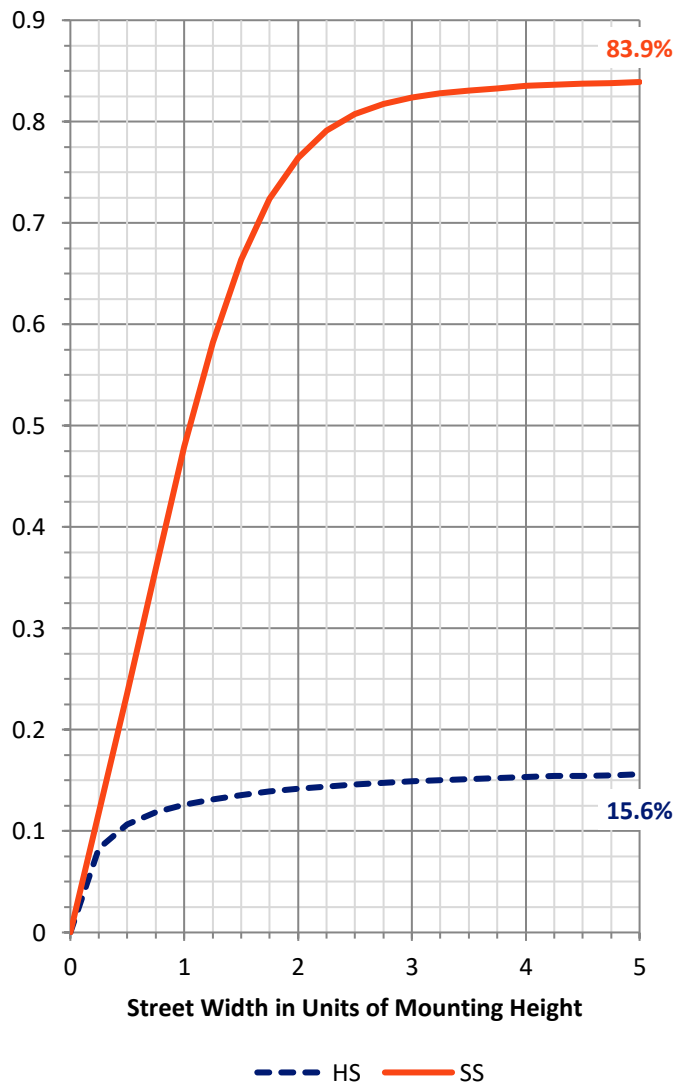
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5587.5	0.0	5587.5
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	29707.1	0.0	29707.1
	% Fixture	84.2	0.0	84.2
Total	Lumens	35294.6	0.0	35294.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	529.1	1.5
10°-20°	1443.3	4.1
20°-30°	2263.6	6.4
30°-40°	3231.3	9.2
40°-50°	4877.0	13.8
50°-60°	7763.3	22.0
60°-70°	9924.8	28.1
70°-80°	4839.0	13.7
80°-90°	423.3	1.2
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°	35294.6	100.0
0°-180°	35294.6	100.0

Coefficient of Utilization

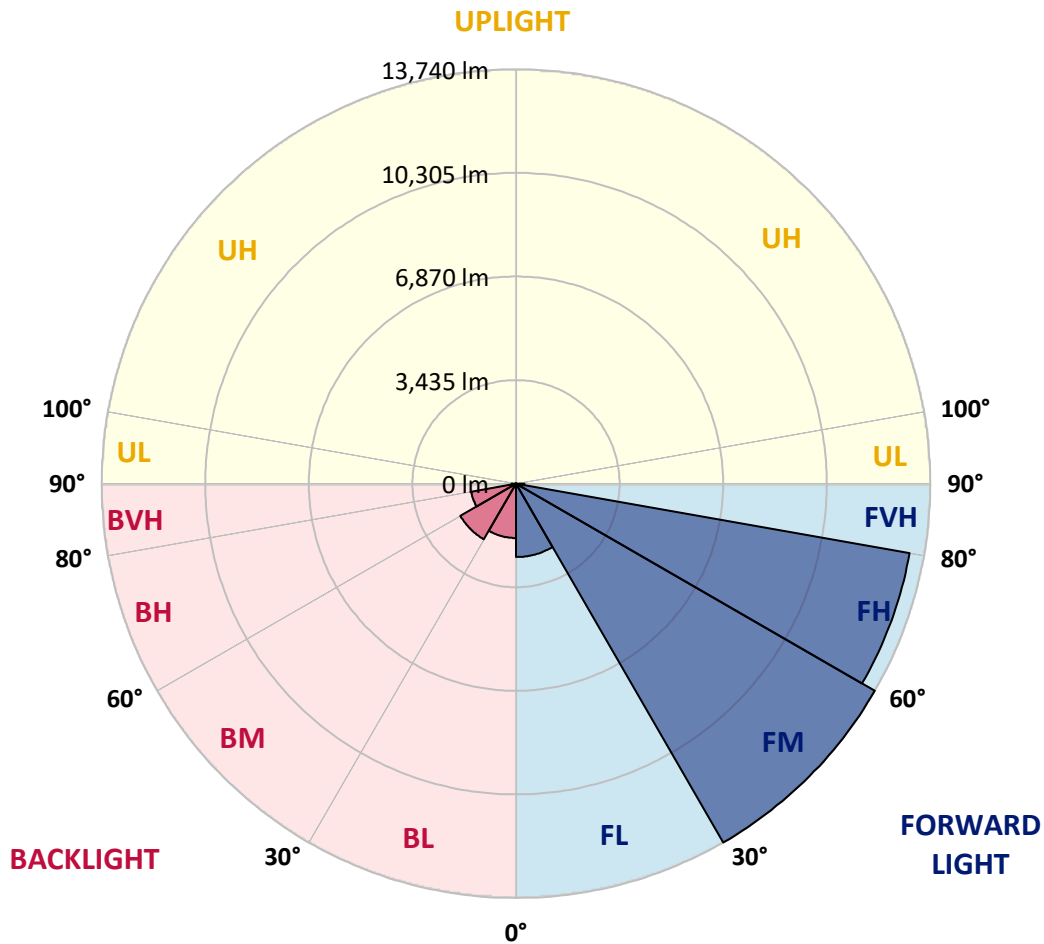


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2432.2	6.9			
FM (30°-60°)	13739.9	38.9			
FH (60°-80°)	13253.9	37.6			G5
FVH (80°-90°)	281.1	0.8			G3/500
BL (0°-30°)	1803.8	5.1	B3/2500		
BM (30°-60°)	2131.7	6.0	B2/2500		
BH (60°-80°)	1509.8	4.3	B3/2500		G3/2500
BVH (80°-90°)	142.2	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	5491.7	5491.7	5491.7	5491.7	5491.7	5491.7	5491.7	5491.7	5491.7	5491.7
2.5°	5044.8	5024.1	5048.9	5024.1	5135.8	5202.1	5222.7	5251.7	5355.2	5454.5
5°	4833.7	4742.7	4842.0	4875.1	4883.4	4995.1	5111.0	5131.7	5185.5	5346.9
7.5°	4482.0	4585.4	4548.2	4647.5	4751.0	4862.7	5053.1	4999.3	5197.9	5351.0
10°	4407.5	4415.7	4457.1	4494.4	4585.4	4730.3	4995.1	4962.0	5164.8	5491.7
12.5°	4482.0	4482.0	4469.5	4440.6	4544.0	4684.7	4895.8	4912.4	5231.0	5533.1
15°	4742.7	4792.3	4659.9	4680.6	4639.2	4684.7	4871.0	4908.2	5255.9	5566.2
17.5°	5380.0	5363.5	5206.2	4986.9	4804.8	4775.8	4904.1	4945.5	5231.0	5661.4
20°	6000.8	5967.7	5694.5	5466.9	5106.9	4937.2	4957.9	4962.0	5272.4	5723.5
22.5°	6691.9	6778.8	6480.8	6017.3	5570.4	5148.3	5065.5	5131.7	5367.6	5756.6
25°	7776.2	7589.9	7333.4	6725.0	6004.9	5475.2	5243.4	5276.5	5458.6	5839.4
27.5°	8558.3	8483.9	8082.4	7589.9	6613.3	5731.8	5338.6	5400.7	5624.2	5835.2
30°	9311.5	9311.5	9067.4	8330.7	7254.7	6162.2	5541.4	5512.4	5545.5	5827.0
32.5°	10193.0	10073.0	9721.3	9232.9	8061.7	6555.3	5702.8	5711.1	5711.1	5980.1
35°	10656.5	10851.1	10615.2	9820.6	8678.4	7209.2	6091.8	6029.7	5984.2	6149.8
37.5°	11335.3	11451.1	11202.8	10735.2	9444.0	7738.9	6435.3	6385.7	6120.8	6282.2
40°	11745.0	11724.3	11716.0	11500.8	10457.9	8363.8	6940.2	6811.9	6456.0	6749.8
42.5°	11976.7	11935.3	12444.4	12311.9	11413.9	9282.6	7573.4	7503.0	7109.9	7581.7
45°	12237.4	12543.7	12961.7	13334.1	12527.1	10573.8	8645.3	8545.9	8194.2	8794.2
47.5°	12465.1	12841.7	13375.5	13772.8	13532.8	11976.7	9969.6	9994.4	9762.6	10379.3
50°	12845.8	12883.0	13607.3	14410.1	14596.4	13272.1	11749.1	11707.7	11604.3	12469.2
52.5°	12729.9	12841.7	13756.3	14782.6	15088.8	14641.9	13661.1	13785.2	13648.7	14737.1
55°	10842.8	11178.0	13665.2	15175.8	16255.9	16189.7	16119.3	16036.6	16028.3	17286.4
57.5°	9986.1	10259.3	12038.8	15610.3	17505.7	17994.0	18449.3	18540.3	18536.2	20055.0
60°	9423.3	9704.7	11380.8	15374.4	18569.3	20357.1	21230.3	21242.7	21217.9	23014.0
62.5°	8322.5	8595.6	10242.7	14083.2	18863.1	22538.1	24483.2	24644.6	23506.5	25563.3
65°	6998.1	7221.6	8674.2	12109.1	18081.0	23924.5	26929.0	26738.6	25435.0	27020.0
67°	5723.5	5872.5	7287.8	10395.8	16036.6	23258.2	27636.7	27793.9	26324.8	27082.1
67.5°	5359.3	5495.9	6832.6	9812.3	15258.5	22753.3	27661.5	27636.7	26341.3	27094.5
70°	3720.5	3778.4	4655.8	6749.8	11240.1	19223.2	25641.9	25699.9	25236.4	25625.4
72.5°	2466.5	2553.4	3112.1	4254.3	6625.7	13988.0	21433.1	22053.9	21760.0	21011.0
75°	1589.2	1638.8	2036.1	2532.7	3261.1	7966.5	15833.8	16247.6	15573.0	12994.8
77.5°	889.8	943.6	1229.1	1539.5	1589.2	3314.9	8893.6	9406.7	7970.7	5520.7
80°	554.6	624.9	927.0	914.6	757.3	1216.7	3666.7	3927.4	3186.6	1899.6
82.5°	418.0	471.8	716.0	641.5	426.3	542.1	1374.0	1473.3	1167.0	732.5
85°	285.6	360.0	517.3	397.3	223.5	260.7	546.3	587.7	533.9	355.9
87.5°	103.5	153.1	269.0	198.6	99.3	78.6	178.0	198.6	190.4	161.4
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°
5491.7	0°	5491.7	5491.7	5491.7	5491.7	5491.7	5491.7	5491.7	5491.7	5491.7	5491.7
5541.4	2.5°	5620.0	5678.0	5706.9	5876.6	5947.0	5934.6	5951.1	5975.9	6000.8	6033.9
5611.8	5°	5665.6	5843.5	5938.7	6137.3	6269.8	6211.8	6286.3	6265.6	6236.7	6232.5
5740.1	7.5°	5814.5	6042.2	6327.7	6381.5	6439.5	6294.6	6170.5	6000.8	5959.4	5814.5
5847.7	10°	6079.4	6265.6	6613.3	6634.0	6377.4	6004.9	5727.6	5375.9	5371.7	5160.7
6013.2	12.5°	6331.9	6542.9	6824.3	6704.3	6091.8	5582.8	5131.7	4746.8	4585.4	4477.8
6112.5	15°	6489.1	6836.7	6985.7	6468.4	5591.1	4904.1	4320.6	3906.7	3741.2	3662.5
6236.7	17.5°	6634.0	7118.2	7051.9	6054.6	4974.4	4204.7	3509.4	3149.4	3103.8	3045.9
6435.3	20°	6832.6	7221.6	6816.1	5516.6	4275.0	3302.5	2859.7	2685.9	2727.2	2752.1
6456.0	22.5°	7018.8	7275.4	6518.1	4928.9	3377.0	2615.5	2396.2	2433.4	2495.5	2578.3
6505.7	25°	7101.6	7362.3	6116.7	4117.8	2570.0	2201.7	2152.0	2214.1	2317.5	2321.7
6576.0	27.5°	7155.4	7300.3	5632.5	3327.3	2032.0	1924.4	1998.9	2044.4	2056.8	2106.5
6725.0	30°	7250.6	7172.0	5020.0	2379.6	1705.0	1709.2	1804.4	1804.4	1804.4	1841.6
6874.0	32.5°	7416.1	7085.1	4304.0	1738.2	1469.2	1601.6	1576.8	1568.5	1551.9	1506.4
7064.4	35°	7519.6	6849.2	3397.7	1287.1	1320.2	1469.2	1460.9	1332.6	1117.4	1009.8
7548.6	37.5°	7734.8	6729.1	2499.6	993.2	1233.3	1402.9	1357.4	1047.0	811.1	707.7
8148.6	40°	8198.3	6650.5	1729.9	869.1	1175.3	1369.8	1212.6	893.9	620.8	438.7
9075.7	42.5°	8765.3	6654.7	1175.3	819.4	1179.5	1440.2	1167.0	765.6	438.7	351.8
10313.1	45°	9526.7	6592.6	807.0	819.4	1254.0	1556.1	1196.0	695.3	426.3	447.0
11865.0	47.5°	10346.2	6646.4	600.1	744.9	1266.4	1560.2	1092.6	682.8	409.7	517.3
13553.5	50°	11302.1	6700.2	496.6	687.0	1270.5	1510.5	1005.6	666.3	426.3	546.3
15490.3	52.5°	12287.1	6869.9	422.1	649.7	1320.2	1489.8	1005.6	691.1	426.3	475.9
17956.8	55°	13756.3	7304.4	608.4	811.1	1502.3	1626.4	1237.4	968.4	595.9	612.5
20319.9	57.5°	15378.5	7751.3	678.7	852.5	1543.6	1465.0	1332.6	1067.7	629.0	633.2
22157.3	60°	16446.3	7767.9	674.6	831.8	1444.3	1266.4	1303.6	1125.7	641.5	542.1
23295.4	62.5°	16872.5	7263.0	703.5	831.8	1345.0	1183.6	1336.7	1212.6	662.2	678.7
23618.2	65°	16388.3	6220.1	678.7	744.9	1183.6	1059.4	1345.0	1229.1	724.2	682.8
23038.8	67°	15631.0	5359.3	691.1	707.7	1100.8	1005.6	1415.4	1291.2	840.1	819.4
22736.7	67.5°	15415.8	5131.7	687.0	687.0	1071.9	989.1	1431.9	1291.2	856.7	848.4
20067.4	70°	13586.6	4159.2	703.5	678.7	947.7	939.4	1523.0	1361.6	985.0	993.2
14741.2	72.5°	10342.0	3153.5	699.4	678.7	823.6	898.0	1535.4	1407.1	1071.9	993.2
8256.2	75°	5876.6	1887.1	616.6	591.8	649.7	782.2	1436.0	1340.9	1042.9	889.8
3298.4	77.5°	2429.3	972.5	567.0	533.9	538.0	637.3	1196.0	1249.8	993.2	757.3
1100.8	80°	906.3	583.5	455.2	426.3	413.8	467.6	852.5	997.4	848.4	620.8
484.2	82.5°	471.8	364.2	310.4	310.4	281.4	298.0	459.4	662.2	641.5	426.3
194.5	85°	240.0	206.9	178.0	173.8	157.3	140.7	231.8	393.2	368.3	235.9
86.9	87.5°	128.3	115.9	74.5	70.4	57.9	37.2	41.4	78.6	128.3	103.5
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>
5491.7
6067.0
6269.8
5864.2
5152.4
4453.0
3646.0
3074.9
2723.1
2532.7
2363.1
2152.0
1883.0
1481.6
1059.4
703.5
426.3
343.5
455.2
575.2
633.2
488.3
645.6
612.5
558.7
687.0
670.4
807.0
831.8
918.7
881.5
794.6
716.0
567.0
335.2
194.5
74.5
0.0

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