

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: P477713

Luminaire Tested: **IFLD-L-SA7A-730-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477713
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-730-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

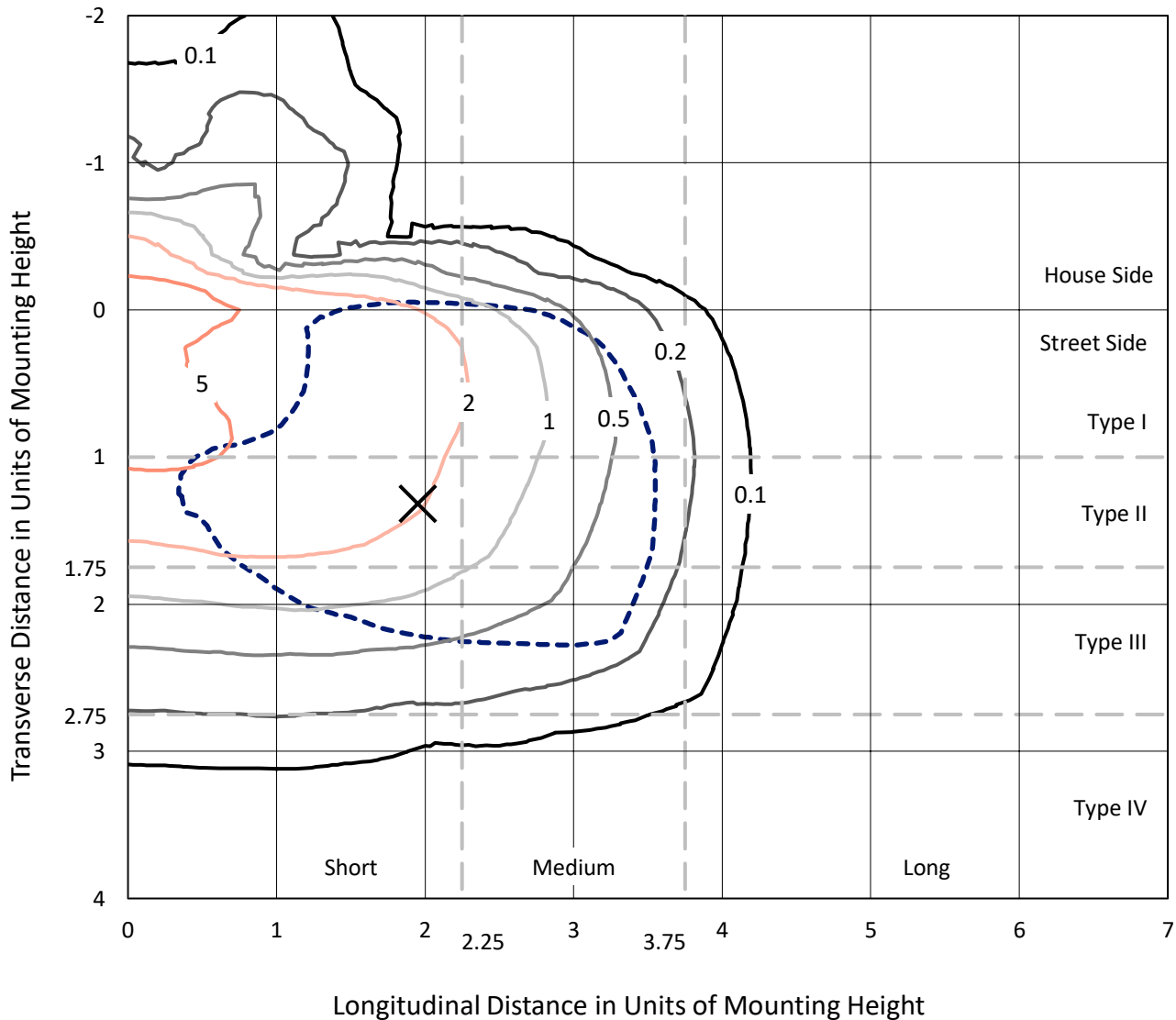
Lumens per Lamp: N/A
Luminaire Lumens: 27997.7 lumens
Efficiency: N/A
Efficacy: 128.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 217.6
Input Voltage (V): 120
Input Current (A_{in}): 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

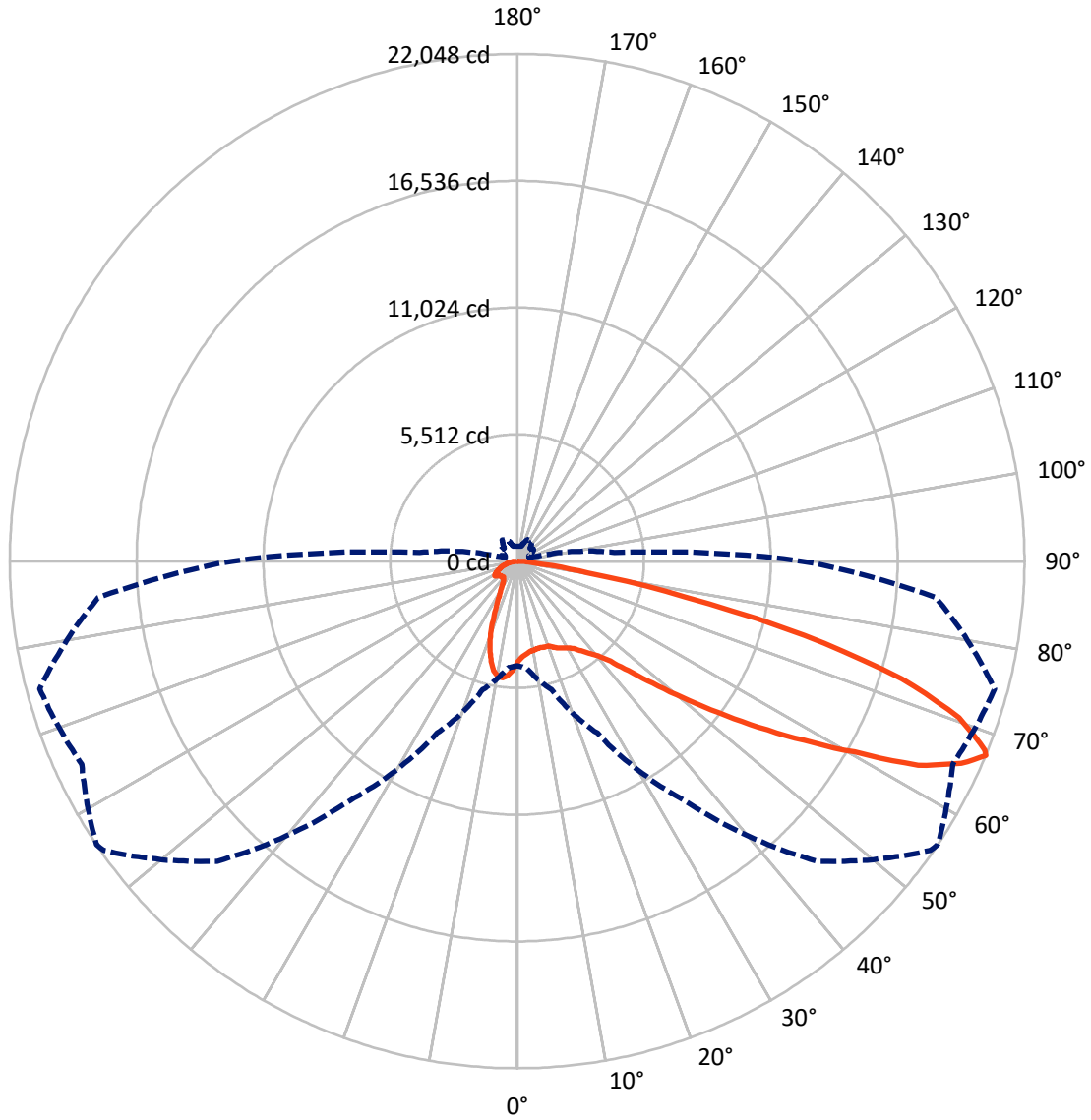
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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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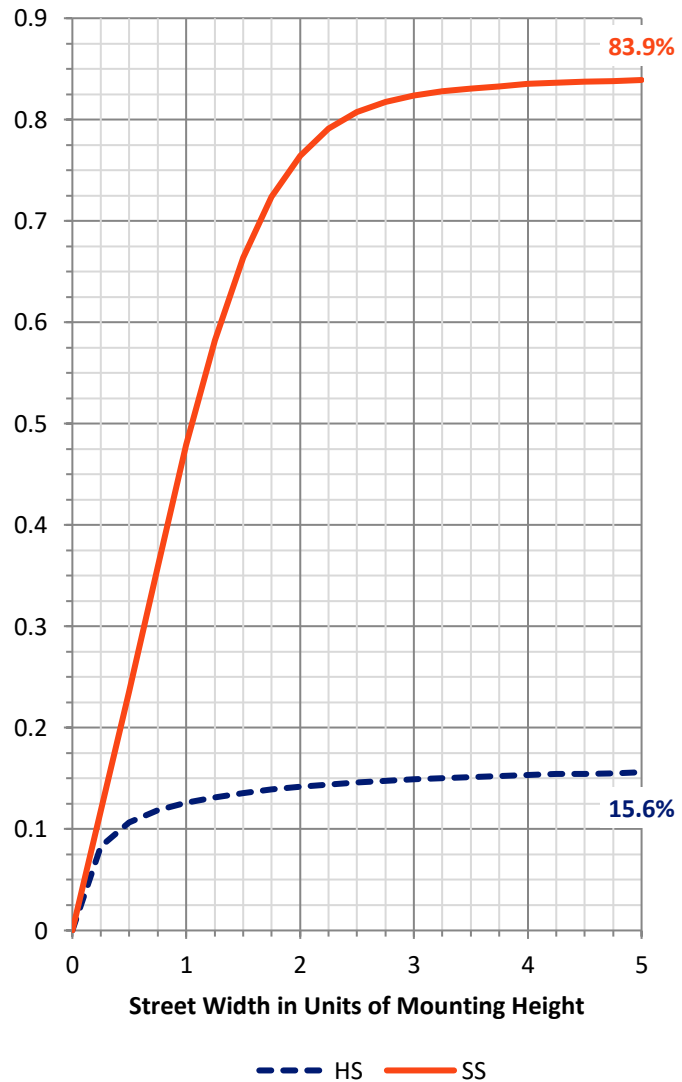
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4432.3	0.0	4432.3
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	23565.4	0.0	23565.4
	% Fixture	84.2	0.0	84.2
Total	Lumens	27997.7	0.0	27997.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	419.7	1.5
10°-20°	1144.9	4.1
20°-30°	1795.6	6.4
30°-40°	2563.3	9.2
40°-50°	3868.7	13.8
50°-60°	6158.3	22.0
60°-70°	7872.9	28.1
70°-80°	3838.6	13.7
80°-90°	335.8	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°	27997.7	100.0
0°-180°	27997.7	100.0

Coefficient of Utilization

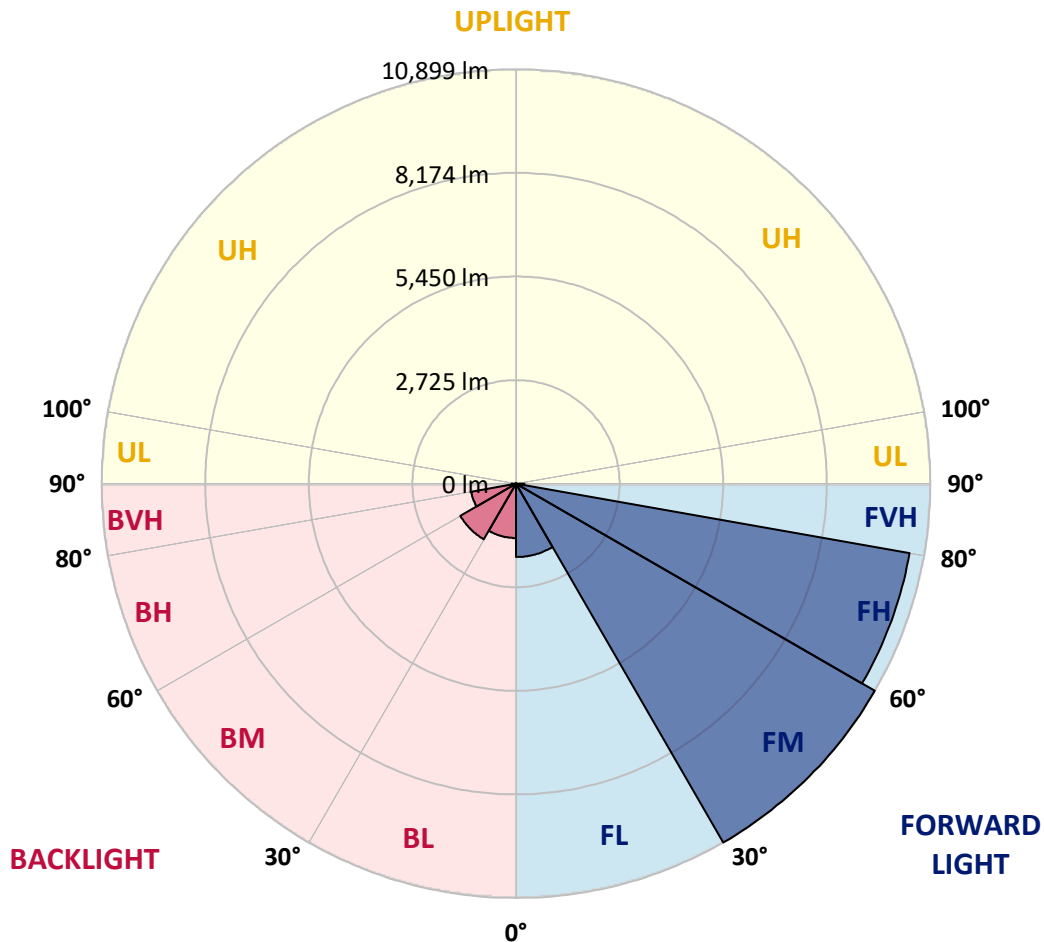


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1929.4	6.9			
FM (30°-60°)	10899.3	38.9			
FH (60°-80°)	10513.7	37.6			G4/12000
FVH (80°-90°)	223.0	0.8			G2/225
BL (0°-30°)	1430.9	5.1	B3/2500		
BM (30°-60°)	1691.0	6.0	B2/2500		
BH (60°-80°)	1197.7	4.3	B3/2500		G3/2500
BVH (80°-90°)	112.8	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-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	4356.4	4356.4	4356.4	4356.4	4356.4	4356.4	4356.4	4356.4	4356.4	4356.4
2.5°	4001.8	3985.4	4005.1	3985.4	4074.0	4126.6	4143.0	4166.0	4248.0	4326.8
5°	3834.4	3762.2	3841.0	3867.2	3873.8	3962.4	4054.3	4070.8	4113.4	4241.5
7.5°	3555.3	3637.4	3607.9	3686.7	3768.7	3857.4	4008.4	3965.7	4123.3	4244.7
10°	3496.3	3502.8	3535.6	3565.2	3637.4	3752.3	3962.4	3936.2	4097.0	4356.4
12.5°	3555.3	3555.3	3545.5	3522.5	3604.6	3716.2	3883.6	3896.8	4149.5	4389.2
15°	3762.2	3801.6	3696.5	3712.9	3680.1	3716.2	3863.9	3893.5	4169.2	4415.5
17.5°	4267.7	4254.6	4129.8	3955.9	3811.4	3788.4	3890.2	3923.0	4149.5	4491.0
20°	4760.2	4733.9	4517.2	4336.7	4051.1	3916.5	3932.9	3936.2	4182.4	4540.2
22.5°	5308.4	5377.3	5141.0	4773.3	4418.7	4083.9	4018.2	4070.8	4257.9	4566.5
25°	6168.5	6020.8	5817.2	5334.7	4763.4	4343.2	4159.4	4185.7	4330.1	4632.1
27.5°	6789.0	6729.9	6411.4	6020.8	5246.0	4546.8	4234.9	4284.1	4461.4	4628.8
30°	7386.5	7386.5	7192.8	6608.4	5754.9	4888.2	4395.8	4372.8	4399.0	4622.3
32.5°	8085.7	7990.5	7711.5	7324.1	6395.0	5200.1	4523.8	4530.4	4530.4	4743.7
35°	8453.4	8607.7	8420.6	7790.2	6884.2	5718.8	4832.4	4783.1	4747.0	4878.3
37.5°	8991.8	9083.7	8886.7	8515.8	7491.5	6139.0	5104.9	5065.5	4855.4	4983.4
40°	9316.8	9300.4	9293.8	9123.1	8295.8	6634.7	5505.4	5403.6	5121.3	5354.4
42.5°	9500.6	9467.8	9871.6	9766.5	9054.1	7363.5	6007.6	5951.8	5640.0	6014.2
45°	9707.4	9950.4	10281.9	10577.4	9937.2	8387.7	6857.9	6779.1	6500.1	6976.1
47.5°	9888.0	10186.7	10610.2	10925.4	10735.0	9500.6	7908.4	7928.1	7744.3	8233.4
50°	10190.0	10219.6	10794.1	11430.9	11578.7	10528.2	9320.1	9287.2	9205.2	9891.3
52.5°	10098.1	10186.7	10912.2	11726.4	11969.3	11614.8	10836.7	10935.2	10826.9	11690.3
55°	8601.1	8867.0	10840.0	12038.3	12895.1	12842.6	12786.8	12721.1	12714.5	13712.5
57.5°	7921.6	8138.2	9549.9	12383.0	13886.5	14273.9	14635.0	14707.2	14704.0	15908.8
60°	7475.1	7698.3	9027.9	12195.9	14730.2	16148.4	16841.1	16851.0	16831.3	18256.0
62.5°	6601.8	6818.5	8125.1	11171.6	14963.3	17878.5	19421.4	19549.5	18646.7	20278.3
65°	5551.3	5728.6	6880.9	9605.7	14342.8	18978.3	21361.6	21210.6	20176.5	21433.8
67°	4540.2	4658.4	5781.1	8246.6	12721.1	18449.7	21923.0	22047.7	20882.3	21483.1
67.5°	4251.3	4359.6	5420.0	7783.7	12103.9	18049.2	21942.7	21923.0	20895.4	21492.9
70°	2951.3	2997.3	3693.2	5354.4	8916.3	15248.9	20340.6	20386.6	20018.9	20327.5
72.5°	1956.6	2025.5	2468.7	3374.8	5255.9	11096.1	17002.0	17494.4	17261.3	16667.1
75°	1260.6	1300.0	1615.2	2009.1	2586.9	6319.5	12560.2	12888.5	12353.4	10308.2
77.5°	705.8	748.5	975.0	1221.2	1260.6	2629.6	7054.9	7462.0	6322.8	4379.3
80°	439.9	495.7	735.4	725.5	600.8	965.2	2908.6	3115.4	2527.8	1506.8
82.5°	331.6	374.2	567.9	508.8	338.1	430.1	1089.9	1168.7	925.8	581.1
85°	226.5	285.6	410.4	315.2	177.3	206.8	433.3	466.2	423.5	282.3
87.5°	82.1	121.5	213.4	157.6	78.8	62.4	141.2	157.6	151.0	128.0
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°
4356.4	0°	4356.4	4356.4	4356.4	4356.4	4356.4	4356.4	4356.4	4356.4	4356.4	4356.4
4395.8	2.5°	4458.1	4504.1	4527.1	4661.7	4717.5	4707.6	4720.8	4740.5	4760.2	4786.4
4451.6	5°	4494.2	4635.4	4710.9	4868.5	4973.5	4927.6	4986.7	4970.3	4947.3	4944.0
4553.3	7.5°	4612.4	4793.0	5019.5	5062.2	5108.1	4993.2	4894.8	4760.2	4727.3	4612.4
4638.7	10°	4822.5	4970.3	5246.0	5262.4	5058.9	4763.4	4543.5	4264.4	4261.2	4093.7
4770.0	12.5°	5022.8	5190.2	5413.4	5318.2	4832.4	4428.6	4070.8	3765.4	3637.4	3552.1
4848.8	15°	5147.5	5423.3	5541.5	5131.1	4435.2	3890.2	3427.3	3099.0	2967.7	2905.3
4947.3	17.5°	5262.4	5646.5	5594.0	4802.8	3946.0	3335.4	2783.9	2498.3	2462.2	2416.2
5104.9	20°	5420.0	5728.6	5406.9	4376.1	3391.2	2619.7	2268.5	2130.6	2163.4	2183.1
5121.3	22.5°	5567.7	5771.3	5170.5	3909.9	2678.8	2074.8	1900.8	1930.3	1979.6	2045.2
5160.7	25°	5633.4	5840.2	4852.1	3266.5	2038.7	1746.5	1707.1	1756.3	1838.4	1841.7
5216.5	27.5°	5676.1	5791.0	4468.0	2639.4	1611.9	1526.5	1585.6	1621.7	1631.6	1671.0
5334.7	30°	5751.6	5689.2	3982.1	1887.6	1352.5	1355.8	1431.3	1431.3	1431.3	1460.9
5452.8	32.5°	5882.9	5620.3	3414.2	1378.8	1165.4	1270.5	1250.8	1244.2	1231.1	1195.0
5603.9	35°	5965.0	5433.1	2695.2	1021.0	1047.2	1165.4	1158.9	1057.1	886.4	801.0
5987.9	37.5°	6135.7	5337.9	1982.9	787.9	978.3	1112.9	1076.8	830.6	643.4	561.4
6464.0	40°	6503.4	5275.6	1372.2	689.4	932.3	1086.6	961.9	709.1	492.4	348.0
7199.3	42.5°	6953.1	5278.8	932.3	650.0	935.6	1142.4	925.8	607.3	348.0	279.0
8180.9	45°	7557.2	5229.6	640.2	650.0	994.7	1234.4	948.7	551.5	338.1	354.5
9412.0	47.5°	8207.2	5272.3	476.0	590.9	1004.6	1237.6	866.7	541.7	325.0	410.4
10751.4	50°	8965.5	5315.0	393.9	545.0	1007.8	1198.2	797.7	528.5	338.1	433.3
12287.8	52.5°	9746.8	5449.6	334.9	515.4	1047.2	1181.8	797.7	548.2	338.1	377.5
14244.4	55°	10912.2	5794.3	482.6	643.4	1191.7	1290.2	981.6	768.2	472.7	485.9
16118.9	57.5°	12199.1	6148.8	538.4	676.3	1224.5	1162.1	1057.1	847.0	499.0	502.3
17576.5	60°	13046.1	6161.9	535.1	659.9	1145.7	1004.6	1034.1	892.9	508.8	430.1
18479.3	62.5°	13384.2	5761.4	558.1	659.9	1066.9	938.9	1060.4	961.9	525.3	538.4
18735.3	65°	13000.2	4934.1	538.4	590.9	938.9	840.4	1066.9	975.0	574.5	541.7
18275.7	67°	12399.4	4251.3	548.2	561.4	873.2	797.7	1122.7	1024.3	666.4	650.0
18036.1	67.5°	12228.7	4070.8	545.0	545.0	850.3	784.6	1135.9	1024.3	679.6	673.0
15918.6	70°	10777.7	3299.3	558.1	538.4	751.8	745.2	1208.1	1080.1	781.3	787.9
11693.6	72.5°	8203.9	2501.5	554.8	538.4	653.3	712.4	1217.9	1116.2	850.3	787.9
6549.3	75°	4661.7	1497.0	489.1	469.4	515.4	620.5	1139.2	1063.6	827.3	705.8
2616.4	77.5°	1927.0	771.5	449.8	423.5	426.8	505.6	948.7	991.4	787.9	600.8
873.2	80°	718.9	462.9	361.1	338.1	328.3	371.0	676.3	791.2	673.0	492.4
384.1	82.5°	374.2	288.9	246.2	246.2	223.2	236.4	364.4	525.3	508.8	338.1
154.3	85°	190.4	164.1	141.2	137.9	124.7	111.6	183.8	311.9	292.2	187.1
68.9	87.5°	101.8	91.9	59.1	55.8	46.0	29.5	32.8	62.4	101.8	82.1
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>
4356.4
4812.7
4973.5
4651.8
4087.2
3532.4
2892.2
2439.2
2160.1
2009.1
1874.5
1707.1
1493.7
1175.3
840.4
558.1
338.1
272.5
361.1
456.3
502.3
387.4
512.1
485.9
443.2
545.0
531.8
640.2
659.9
728.8
699.3
630.3
567.9
449.8
265.9
154.3
59.1
0.0

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