

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: P477788

Luminaire Tested: **IFLD-M-SA4C-740-U-T3R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477788
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-740-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

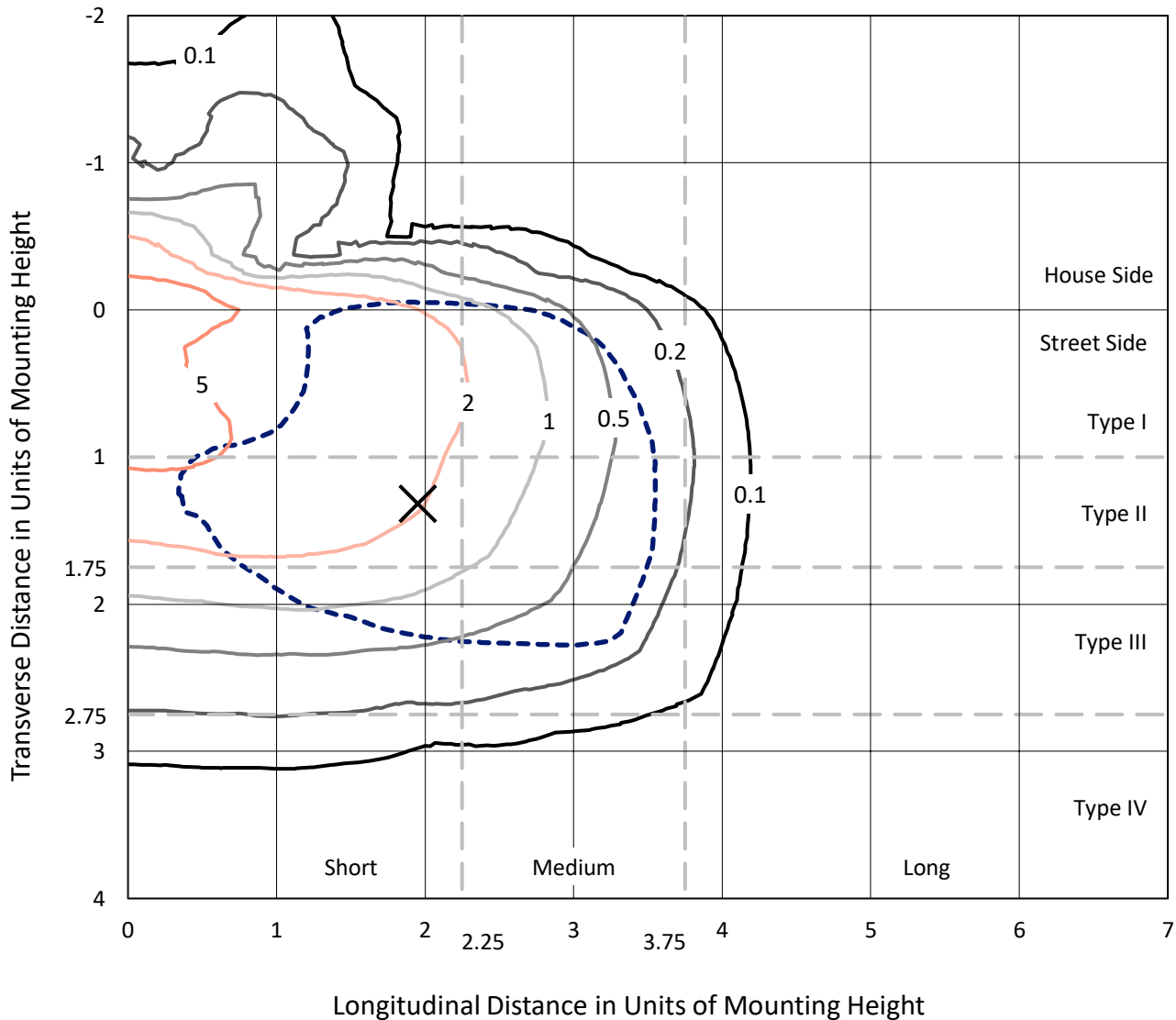
Lumens per Lamp: N/A
Luminaire Lumens: 27928.4 lumens
Efficiency: N/A
Efficacy: 128.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 218.1
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

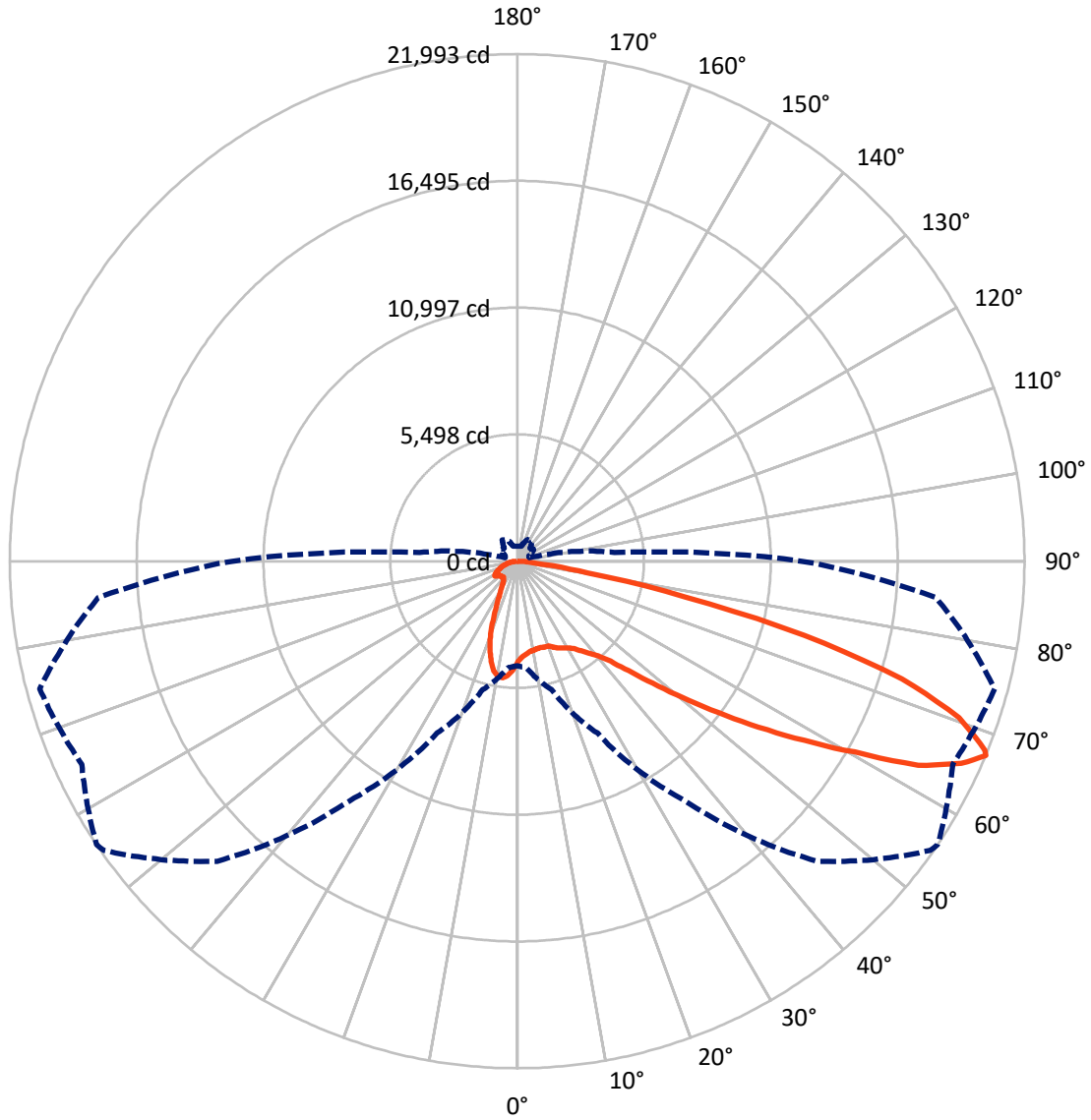
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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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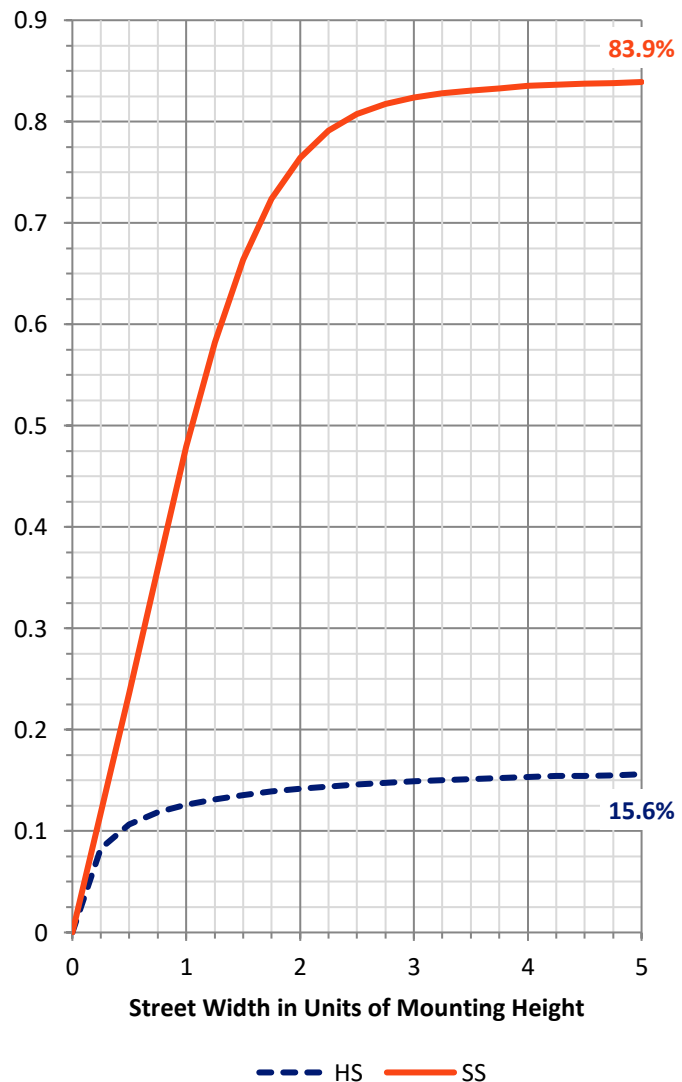
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4421.3	0.0	4421.3
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	23507.0	0.0	23507.0
	% Fixture	84.2	0.0	84.2
Total	Lumens	27928.4	0.0	27928.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	418.6	1.5
10°-20°	1142.1	4.1
20°-30°	1791.2	6.4
30°-40°	2556.9	9.2
40°-50°	3859.1	13.8
50°-60°	6143.0	22.0
60°-70°	7853.4	28.1
70°-80°	3829.0	13.7
80°-90°	335.0	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°	27928.4	100.0
0°-180°	27928.4	100.0

Coefficient of Utilization

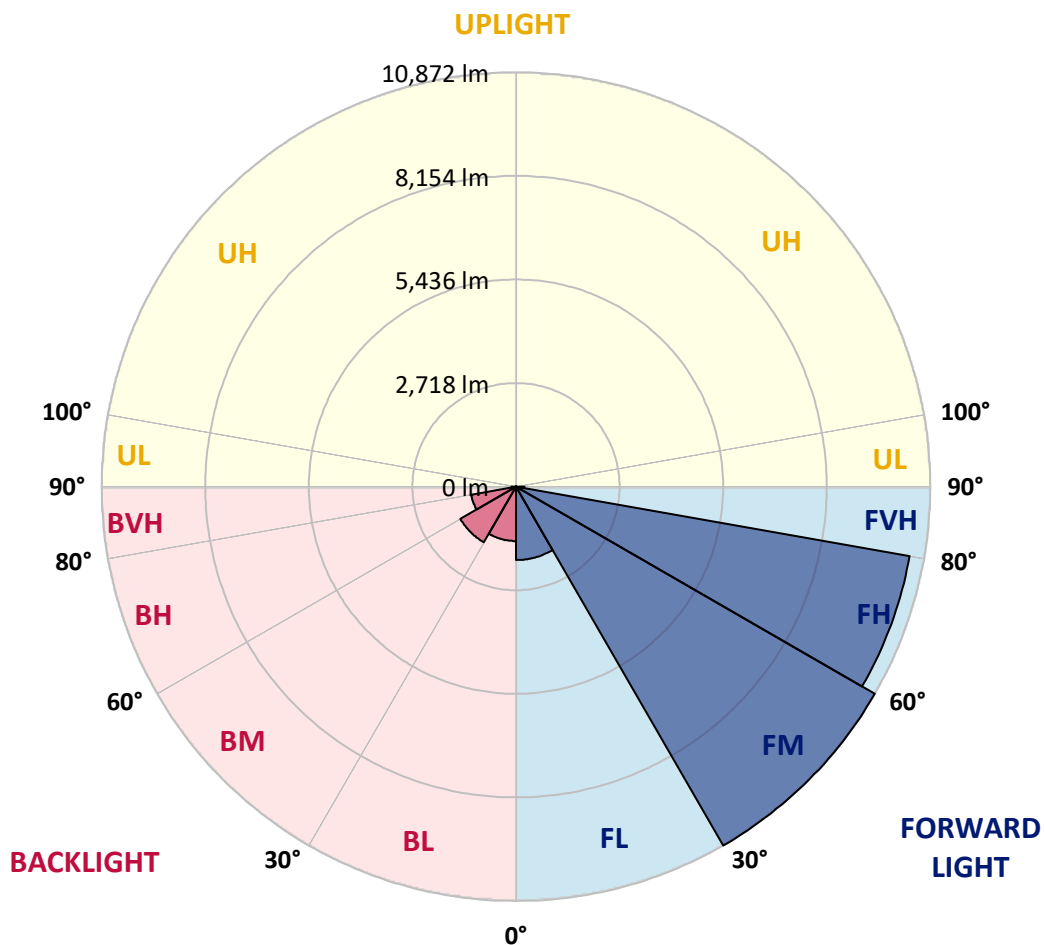


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1924.6	6.9			
FM (30°-60°)	10872.3	38.9			
FH (60°-80°)	10487.7	37.6			G4/12000
FVH (80°-90°)	222.5	0.8			G2/225
BL (0°-30°)	1427.3	5.1	B3/2500		
BM (30°-60°)	1686.8	6.0	B2/2500		
BH (60°-80°)	1194.7	4.3	B3/2500		G3/2500
BVH (80°-90°)	112.5	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°	4345.6	4345.6	4345.6	4345.6	4345.6	4345.6	4345.6	4345.6	4345.6	4345.6
2.5°	3991.9	3975.5	3995.2	3975.5	4064.0	4116.3	4132.7	4155.6	4237.5	4316.1
5°	3824.9	3752.9	3831.4	3857.6	3864.2	3952.6	4044.3	4060.7	4103.2	4231.0
7.5°	3546.5	3628.4	3598.9	3677.5	3759.4	3847.8	3998.5	3955.9	4113.1	4234.2
10°	3487.6	3494.1	3526.9	3556.4	3628.4	3743.0	3952.6	3926.4	4086.9	4345.6
12.5°	3546.5	3546.5	3536.7	3513.8	3595.7	3707.0	3874.0	3887.1	4139.3	4378.3
15°	3752.9	3792.1	3687.4	3703.7	3671.0	3707.0	3854.4	3883.8	4158.9	4404.5
17.5°	4257.2	4244.1	4119.6	3946.1	3802.0	3779.0	3880.6	3913.3	4139.3	4479.8
20°	4748.4	4722.2	4506.0	4325.9	4041.0	3906.8	3923.1	3926.4	4172.0	4529.0
22.5°	5295.3	5364.0	5128.2	4761.5	4407.8	4073.8	4008.3	4060.7	4247.3	4555.2
25°	6153.2	6005.9	5802.8	5321.4	4751.6	4332.5	4149.1	4175.3	4319.4	4620.7
27.5°	6772.2	6713.2	6395.6	6005.9	5233.0	4535.5	4224.4	4273.5	4450.4	4617.4
30°	7368.2	7368.2	7175.0	6592.0	5740.6	4876.1	4384.9	4362.0	4388.1	4610.8
32.5°	8065.7	7970.7	7692.4	7305.9	6379.2	5187.2	4512.6	4519.1	4519.1	4732.0
35°	8432.5	8586.4	8399.7	7771.0	6867.1	5704.6	4820.4	4771.3	4735.3	4866.3
37.5°	8969.5	9061.2	8864.7	8494.7	7473.0	6123.8	5092.2	5052.9	4843.3	4971.1
40°	9293.7	9277.3	9270.8	9100.5	8275.3	6618.2	5491.7	5390.2	5108.6	5341.1
42.5°	9477.1	9444.3	9847.1	9742.3	9031.7	7345.2	5992.8	5937.1	5626.0	5999.3
45°	9683.4	9925.7	10256.5	10551.2	9912.6	8367.0	6840.9	6762.3	6484.0	6958.8
47.5°	9863.5	10161.5	10584.0	10898.3	10708.4	9477.1	7888.8	7908.5	7725.1	8213.0
50°	10164.8	10194.3	10767.3	11402.6	11550.0	10502.1	9297.0	9264.2	9182.4	9866.8
52.5°	10073.1	10161.5	10885.2	11697.4	11939.7	11586.0	10809.9	10908.2	10800.1	11661.3
55°	8579.8	8845.1	10813.2	12008.5	12863.2	12810.8	12755.1	12689.6	12683.1	13678.6
57.5°	7901.9	8118.1	9526.2	12352.3	13852.1	14238.6	14598.8	14670.8	14667.6	15869.4
60°	7456.6	7679.3	9005.5	12165.7	14693.8	16108.4	16799.4	16809.2	16789.6	18210.8
62.5°	6585.5	6801.6	8105.0	11143.9	14926.3	17834.2	19373.4	19501.1	18600.5	20228.1
65°	5537.6	5714.4	6863.9	9581.9	14307.3	18931.3	21308.7	21158.1	20126.5	21380.8
67°	4529.0	4646.9	5766.8	8226.1	12689.6	18404.0	21868.7	21993.1	20830.6	21429.9
67.5°	4240.8	4348.9	5406.6	7764.4	12074.0	18004.5	21888.4	21868.7	20843.7	21439.7
70°	2944.0	2989.8	3684.1	5341.1	8894.2	15211.2	20290.3	20336.1	19969.4	20277.2
72.5°	1951.7	2020.5	2462.6	3366.4	5242.9	11068.6	16959.9	17451.1	17218.6	16625.8
75°	1257.5	1296.8	1611.2	2004.1	2580.5	6303.9	12529.1	12856.6	12322.8	10282.7
77.5°	704.1	746.6	972.6	1218.2	1257.5	2623.1	7037.4	7443.5	6307.1	4368.5
80°	438.8	494.5	733.5	723.7	599.3	962.8	2901.4	3107.7	2521.5	1503.1
82.5°	330.7	373.3	566.5	507.6	337.3	429.0	1087.2	1165.8	923.5	579.6
85°	226.0	284.9	409.3	314.4	176.8	206.3	432.3	465.0	422.4	281.6
87.5°	81.9	121.2	212.9	157.2	78.6	62.2	140.8	157.2	150.6	127.7
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°
4345.6	0°	4345.6	4345.6	4345.6	4345.6	4345.6	4345.6	4345.6	4345.6	4345.6	4345.6
4384.9	2.5°	4447.1	4492.9	4515.9	4650.1	4705.8	4696.0	4709.1	4728.7	4748.4	4774.6
4440.5	5°	4483.1	4623.9	4699.2	4856.4	4961.2	4915.4	4974.3	4958.0	4935.0	4931.8
4542.1	7.5°	4601.0	4781.1	5007.1	5049.6	5095.5	4980.9	4882.6	4748.4	4715.6	4601.0
4627.2	10°	4810.6	4958.0	5233.0	5249.4	5046.4	4751.6	4532.2	4253.9	4250.6	4083.6
4758.2	12.5°	5010.3	5177.4	5400.0	5305.1	4820.4	4417.6	4060.7	3756.1	3628.4	3543.3
4836.8	15°	5134.8	5409.9	5527.8	5118.4	4424.2	3880.6	3418.8	3091.4	2960.4	2898.1
4935.0	17.5°	5249.4	5632.5	5580.2	4790.9	3936.2	3327.1	2777.0	2492.1	2456.1	2410.2
5092.2	20°	5406.6	5714.4	5393.5	4365.2	3382.8	2613.2	2262.8	2125.3	2158.1	2177.7
5108.6	22.5°	5554.0	5757.0	5157.7	3900.2	2672.2	2069.6	1896.1	1925.5	1974.7	2040.2
5147.9	25°	5619.5	5825.8	4840.1	3258.4	2033.6	1742.2	1702.9	1752.0	1833.9	1837.1
5203.6	27.5°	5662.0	5776.6	4456.9	2632.9	1607.9	1522.8	1581.7	1617.7	1627.5	1666.8
5321.4	30°	5737.3	5675.1	3972.3	1883.0	1349.2	1352.5	1427.8	1427.8	1427.8	1457.3
5439.3	32.5°	5868.3	5606.4	3405.7	1375.4	1162.5	1267.3	1247.7	1241.1	1228.0	1192.0
5590.0	35°	5950.2	5419.7	2688.6	1018.4	1044.6	1162.5	1156.0	1054.5	884.2	799.0
5973.1	37.5°	6120.5	5324.7	1977.9	785.9	975.9	1110.1	1074.1	828.5	641.8	560.0
6448.0	40°	6487.3	5262.5	1368.8	687.7	930.0	1083.9	959.5	707.3	491.2	347.1
7181.5	42.5°	6935.9	5265.8	930.0	648.4	933.3	1139.6	923.5	605.8	347.1	278.4
8160.6	45°	7538.4	5216.7	638.6	648.4	992.2	1231.3	946.4	550.2	337.3	353.7
9388.7	47.5°	8186.8	5259.2	474.8	589.5	1002.1	1234.6	864.5	540.3	324.2	409.3
10724.8	50°	8943.3	5301.8	393.0	543.6	1005.3	1195.3	795.8	527.2	337.3	432.3
12257.3	52.5°	9722.7	5436.1	334.0	514.1	1044.6	1178.9	795.8	546.9	337.3	376.6
14209.1	55°	10885.2	5779.9	481.4	641.8	1188.7	1287.0	979.1	766.3	471.6	484.7
16079.0	57.5°	12168.9	6133.6	537.1	674.6	1221.5	1159.3	1054.5	844.9	497.8	501.0
17532.9	60°	13013.8	6146.7	533.8	658.2	1142.9	1002.1	1031.5	890.7	507.6	429.0
18433.5	62.5°	13351.1	5747.2	556.7	658.2	1064.3	936.6	1057.7	959.5	524.0	537.1
18688.9	65°	12968.0	4921.9	537.1	589.5	936.6	838.3	1064.3	972.6	573.1	540.3
18230.5	67°	12368.7	4240.8	546.9	560.0	871.1	795.8	1120.0	1021.7	664.8	648.4
17991.4	67.5°	12198.4	4060.7	543.6	543.6	848.2	782.7	1133.1	1021.7	677.9	671.3
15879.2	70°	10751.0	3291.1	556.7	537.1	749.9	743.4	1205.1	1077.4	779.4	785.9
11664.6	72.5°	8183.6	2495.4	553.4	537.1	651.7	710.6	1214.9	1113.4	848.2	785.9
6533.1	75°	4650.1	1493.3	487.9	468.3	514.1	618.9	1136.3	1061.0	825.2	704.1
2610.0	77.5°	1922.3	769.6	448.6	422.4	425.7	504.3	946.4	989.0	785.9	599.3
871.1	80°	717.2	461.7	360.2	337.3	327.5	370.0	674.6	789.2	671.3	491.2
383.1	82.5°	373.3	288.2	245.6	245.6	222.7	235.8	363.5	524.0	507.6	337.3
153.9	85°	189.9	163.7	140.8	137.5	124.4	111.3	183.4	311.1	291.5	186.7
68.8	87.5°	101.5	91.7	58.9	55.7	45.8	29.5	32.7	62.2	101.5	81.9
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>
4345.6
4800.8
4961.2
4640.3
4077.0
3523.6
2885.0
2433.1
2154.8
2004.1
1869.9
1702.9
1490.0
1172.4
838.3
556.7
337.3
271.8
360.2
455.2
501.0
386.4
510.9
484.7
442.1
543.6
530.5
638.6
658.2
727.0
697.5
628.7
566.5
448.6
265.3
153.9
58.9
0.0

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