

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: P477710

Luminaire Tested: **IFLD-M-SA4C-730-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477710
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-730-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

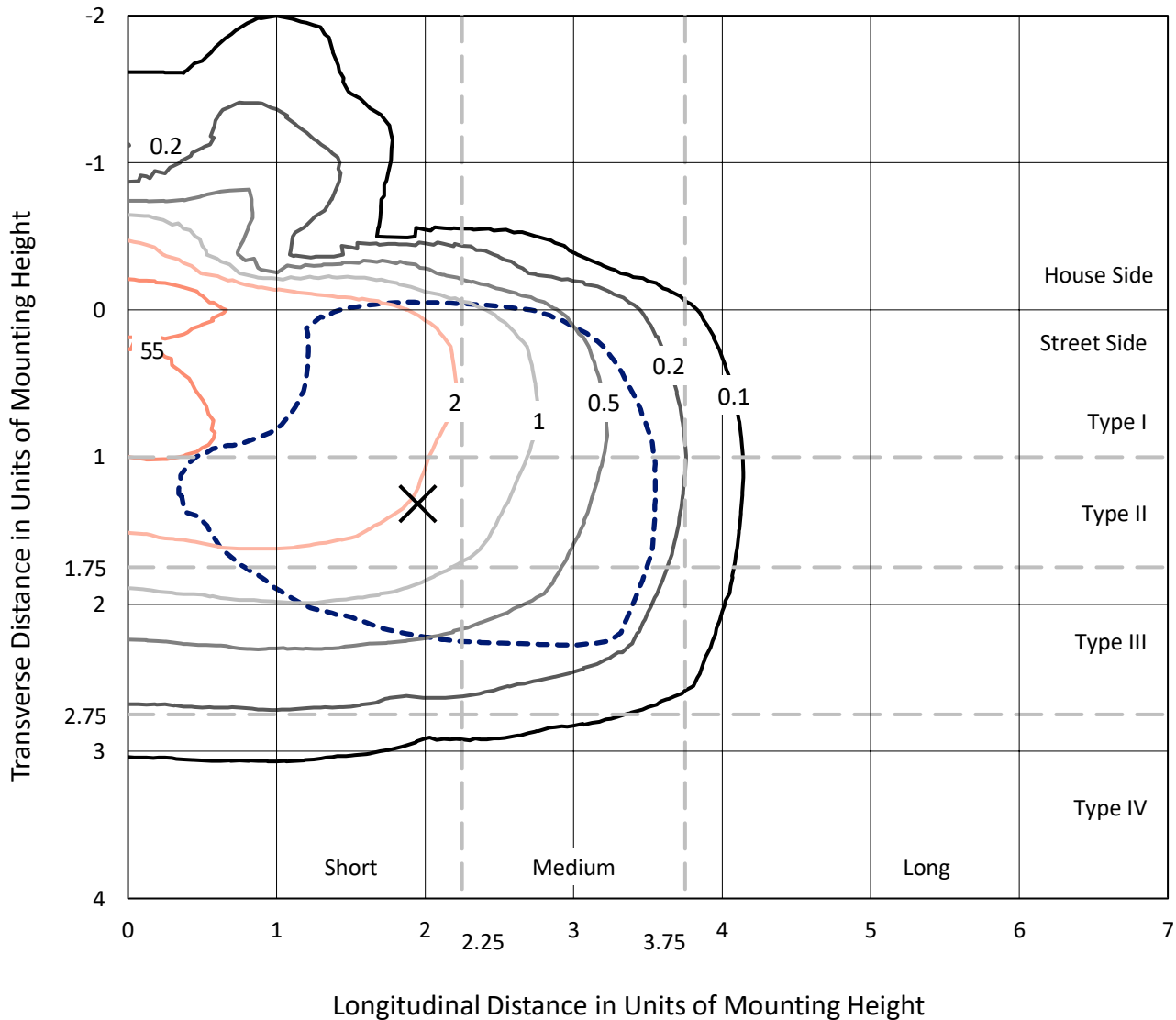
Lumens per Lamp: N/A
Luminaire Lumens: 25431.5 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

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

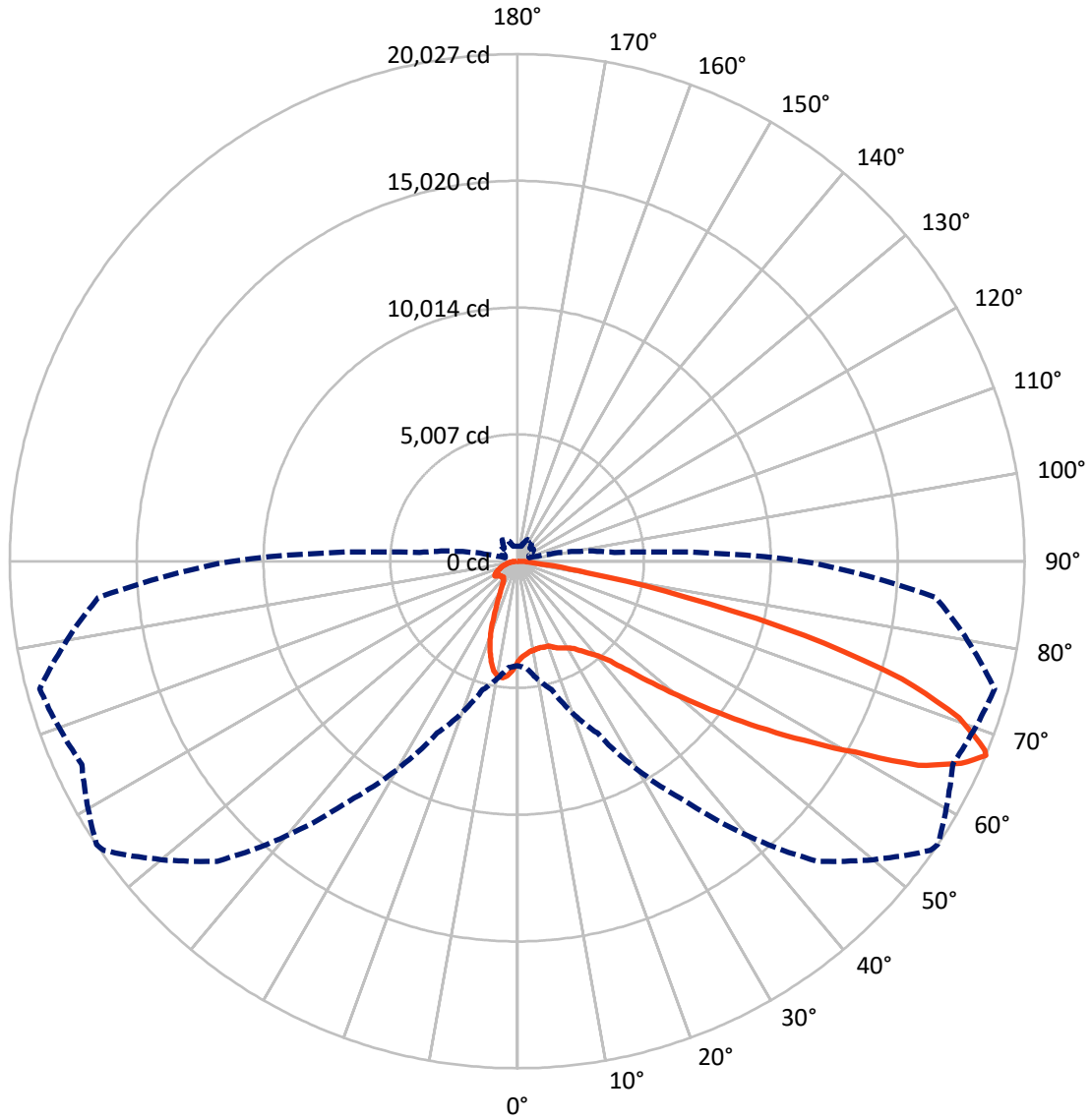
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 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	4026.1	0.0	4026.1
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	21405.5	0.0	21405.5
	% Fixture	84.2	0.0	84.2
Total	Lumens	25431.5	0.0	25431.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	381.2	1.5
10°-20°	1040.0	4.1
20°-30°	1631.0	6.4
30°-40°	2328.3	9.2
40°-50°	3514.1	13.8
50°-60°	5593.8	22.0
60°-70°	7151.3	28.1
70°-80°	3486.7	13.7
80°-90°	305.0	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°	25431.5	100.0
0°-180°	25431.5	100.0

Coefficient of Utilization

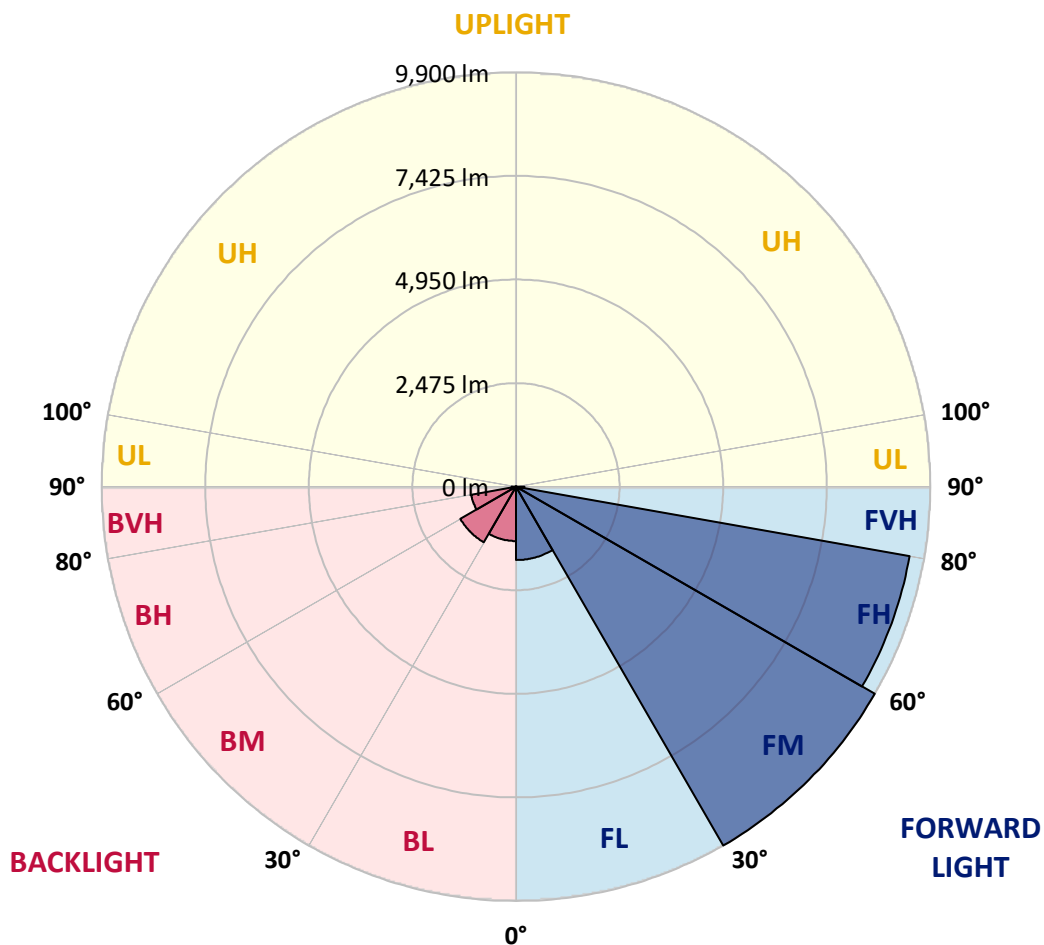


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1752.5	6.9			
FM (30°-60°)	9900.3	38.9			
FH (60°-80°)	9550.1	37.6			G4/12000
FVH (80°-90°)	202.6	0.8			G2/225
BL (0°-30°)	1299.7	5.1	B3/2500		
BM (30°-60°)	1536.0	6.0	B2/2500		
BH (60°-80°)	1087.9	4.3	B3/2500		G3/2500
BVH (80°-90°)	102.4	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°	3957.1	3957.1	3957.1	3957.1	3957.1	3957.1	3957.1	3957.1	3957.1	3957.1
2.5°	3635.0	3620.1	3638.0	3620.1	3700.6	3748.3	3763.3	3784.1	3858.7	3930.2
5°	3482.9	3417.3	3488.9	3512.8	3518.7	3599.2	3682.7	3697.7	3736.4	3852.7
7.5°	3229.5	3304.0	3277.2	3348.8	3423.3	3503.8	3641.0	3602.2	3745.4	3855.7
10°	3175.8	3181.8	3211.6	3238.4	3304.0	3408.4	3599.2	3575.4	3721.5	3957.1
12.5°	3229.5	3229.5	3220.5	3199.7	3274.2	3375.6	3527.7	3539.6	3769.2	3986.9
15°	3417.3	3453.1	3357.7	3372.6	3342.8	3375.6	3509.8	3536.6	3787.1	4010.8
17.5°	3876.6	3864.6	3751.3	3593.3	3462.1	3441.2	3533.6	3563.5	3769.2	4079.3
20°	4323.9	4300.0	4103.2	3939.2	3679.8	3557.5	3572.4	3575.4	3799.0	4124.1
22.5°	4821.9	4884.5	4669.8	4335.8	4013.7	3709.6	3649.9	3697.7	3867.6	4147.9
25°	5603.1	5468.9	5284.1	4845.7	4326.8	3945.2	3778.2	3802.0	3933.2	4207.6
27.5°	6166.7	6113.1	5823.8	5468.9	4765.2	4130.0	3846.7	3891.5	4052.5	4204.6
30°	6709.4	6709.4	6533.5	6002.7	5227.4	4440.2	3992.9	3972.0	3995.8	4198.6
32.5°	7344.6	7258.1	7004.7	6652.8	5808.9	4723.5	4109.2	4115.1	4115.1	4309.0
35°	7678.6	7818.7	7648.8	7076.2	6253.2	5194.6	4389.5	4344.7	4311.9	4431.2
37.5°	8167.6	8251.1	8072.2	7735.2	6804.9	5576.3	4637.0	4601.2	4410.3	4526.6
40°	8462.8	8447.9	8442.0	8286.9	7535.5	6026.6	5000.8	4908.3	4651.9	4863.6
42.5°	8629.8	8600.0	8966.8	8871.4	8224.3	6688.6	5457.0	5406.3	5123.0	5463.0
45°	8817.7	9038.4	9339.6	9607.9	9026.4	7619.0	6229.3	6157.8	5904.3	6336.7
47.5°	8981.7	9253.1	9637.7	9924.0	9751.1	8629.8	7183.6	7201.5	7034.5	7478.8
50°	9256.1	9282.9	9804.7	10383.2	10517.4	9563.2	8465.8	8436.0	8361.5	8984.7
52.5°	9172.6	9253.1	9912.1	10651.6	10872.3	10550.2	9843.5	9933.0	9834.6	10618.8
55°	7812.8	8054.3	9846.5	10934.9	11713.2	11665.5	11614.8	11555.2	11549.2	12455.7
57.5°	7195.5	7392.3	8674.6	11248.0	12613.8	12965.6	13293.7	13359.3	13356.3	14450.7
60°	6790.0	6992.7	8200.4	11078.0	13380.1	14668.3	15297.5	15306.5	15288.6	16582.8
62.5°	5996.8	6193.6	7380.4	10147.7	13591.8	16239.8	17641.4	17757.7	16937.6	18419.7
65°	5042.5	5203.5	6250.2	8725.3	13028.3	17238.8	19403.7	19266.6	18327.2	19469.3
67°	4124.1	4231.4	5251.3	7490.7	11555.2	16758.7	19913.6	20027.0	18968.4	19514.1
67.5°	3861.7	3960.1	4923.2	7070.3	10994.5	16394.9	19931.5	19913.6	18980.3	19523.0
70°	2680.8	2722.5	3354.7	4863.6	8099.0	13851.3	18476.3	18518.1	18184.1	18464.4
72.5°	1777.3	1839.9	2242.4	3065.5	4774.1	10079.1	15443.7	15891.0	15679.2	15139.5
75°	1145.1	1180.9	1467.1	1825.0	2349.8	5740.3	11409.0	11707.2	11221.2	9363.4
77.5°	641.1	679.9	885.6	1109.3	1145.1	2388.6	6408.3	6778.0	5743.3	3978.0
80°	399.6	450.3	668.0	659.0	545.7	876.7	2642.0	2829.9	2296.1	1368.7
82.5°	301.2	339.9	515.9	462.2	307.1	390.6	990.0	1061.6	840.9	527.8
85°	205.8	259.4	372.7	286.3	161.0	187.9	393.6	423.4	384.7	256.4
87.5°	74.5	110.3	193.8	143.1	71.6	56.7	128.2	143.1	137.2	116.3
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°
3957.1	0°	3957.1	3957.1	3957.1	3957.1	3957.1	3957.1	3957.1	3957.1	3957.1	3957.1
3992.9	2.5°	4049.5	4091.3	4112.1	4234.4	4285.1	4276.2	4288.1	4306.0	4323.9	4347.7
4043.6	5°	4082.3	4210.6	4279.1	4422.3	4517.7	4475.9	4529.6	4514.7	4493.8	4490.9
4136.0	7.5°	4189.7	4353.7	4559.4	4598.2	4640.0	4535.6	4446.1	4323.9	4294.0	4189.7
4213.5	10°	4380.5	4514.7	4765.2	4780.1	4595.2	4326.8	4127.1	3873.6	3870.6	3718.5
4332.8	12.5°	4562.4	4714.5	4917.3	4830.8	4389.5	4022.7	3697.7	3420.3	3304.0	3226.5
4404.4	15°	4675.7	4926.2	5033.6	4660.8	4028.7	3533.6	3113.2	2815.0	2695.7	2639.0
4493.8	17.5°	4780.1	5129.0	5081.3	4362.6	3584.3	3029.7	2528.7	2269.3	2236.5	2194.7
4637.0	20°	4923.2	5203.5	4911.3	3975.0	3080.4	2379.6	2060.5	1935.3	1965.1	1983.0
4651.9	22.5°	5057.4	5242.3	4696.6	3551.5	2433.3	1884.6	1726.6	1753.4	1798.1	1857.8
4687.7	25°	5117.1	5304.9	4407.4	2967.1	1851.8	1586.4	1550.6	1595.4	1669.9	1672.9
4738.4	27.5°	5155.8	5260.2	4058.5	2397.5	1464.2	1386.6	1440.3	1473.1	1482.0	1517.8
4845.7	30°	5224.4	5167.8	3617.1	1714.6	1228.6	1231.6	1300.1	1300.1	1300.1	1327.0
4953.1	32.5°	5343.7	5105.1	3101.3	1252.4	1058.6	1154.0	1136.1	1130.2	1118.2	1085.4
5090.2	35°	5418.3	4935.2	2448.2	927.4	951.3	1058.6	1052.6	960.2	805.1	727.6
5439.1	37.5°	5573.3	4848.7	1801.1	715.7	888.6	1010.9	978.1	754.4	584.5	509.9
5871.5	40°	5907.3	4792.0	1246.5	626.2	846.9	987.0	873.7	644.1	447.3	316.1
6539.5	42.5°	6315.8	4795.0	846.9	590.4	849.9	1037.7	840.9	551.7	316.1	253.5
7431.1	45°	6864.5	4750.3	581.5	590.4	903.5	1121.2	861.8	501.0	307.1	322.1
8549.3	47.5°	7454.9	4789.1	432.4	536.8	912.5	1124.2	787.2	492.0	295.2	372.7
9766.0	50°	8143.8	4827.8	357.8	495.0	915.5	1088.4	724.6	480.1	307.1	393.6
11161.5	52.5°	8853.5	4950.1	304.2	468.2	951.3	1073.5	724.6	498.0	307.1	342.9
12938.8	55°	9912.1	5263.2	438.4	584.5	1082.5	1171.9	891.6	697.8	429.4	441.3
14641.5	57.5°	11081.0	5585.2	489.0	614.3	1112.3	1055.6	960.2	769.3	453.3	456.2
15965.5	60°	11850.4	5597.2	486.1	599.4	1040.7	912.5	939.3	811.1	462.2	390.6
16785.5	62.5°	12157.5	5233.4	506.9	599.4	969.1	852.8	963.2	873.7	477.1	489.0
17018.1	65°	11808.6	4481.9	489.0	536.8	852.8	763.4	969.1	885.6	521.8	492.0
16600.7	67°	11262.9	3861.7	498.0	509.9	793.2	724.6	1019.8	930.4	605.3	590.4
16383.0	67.5°	11107.9	3697.7	495.0	495.0	772.3	712.7	1031.8	930.4	617.3	611.3
14459.6	70°	9789.8	2996.9	506.9	489.0	682.9	676.9	1097.4	981.1	709.7	715.7
10621.8	72.5°	7452.0	2272.3	504.0	489.0	593.4	647.1	1106.3	1013.9	772.3	715.7
5949.0	75°	4234.4	1359.8	444.3	426.4	468.2	563.6	1034.7	966.2	751.5	641.1
2376.6	77.5°	1750.4	700.8	408.5	384.7	387.7	459.2	861.8	900.6	715.7	545.7
793.2	80°	653.1	420.5	328.0	307.1	298.2	337.0	614.3	718.7	611.3	447.3
348.9	82.5°	339.9	262.4	223.6	223.6	202.8	214.7	331.0	477.1	462.2	307.1
140.2	85°	173.0	149.1	128.2	125.2	113.3	101.4	167.0	283.3	265.4	170.0
62.6	87.5°	92.4	83.5	53.7	50.7	41.7	26.8	29.8	56.7	92.4	74.5
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>
3957.1
4371.6
4517.7
4225.5
3712.6
3208.6
2627.1
2215.6
1962.1
1825.0
1702.7
1550.6
1356.8
1067.5
763.4
506.9
307.1
247.5
328.0
414.5
456.2
351.9
465.2
441.3
402.6
495.0
483.1
581.5
599.4
662.0
635.2
572.5
515.9
408.5
241.5
140.2
53.7
0.0

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