

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: P477679

Luminaire Tested: **IFLD-L-SA8A-727-U-T3R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477679
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-727-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (128) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

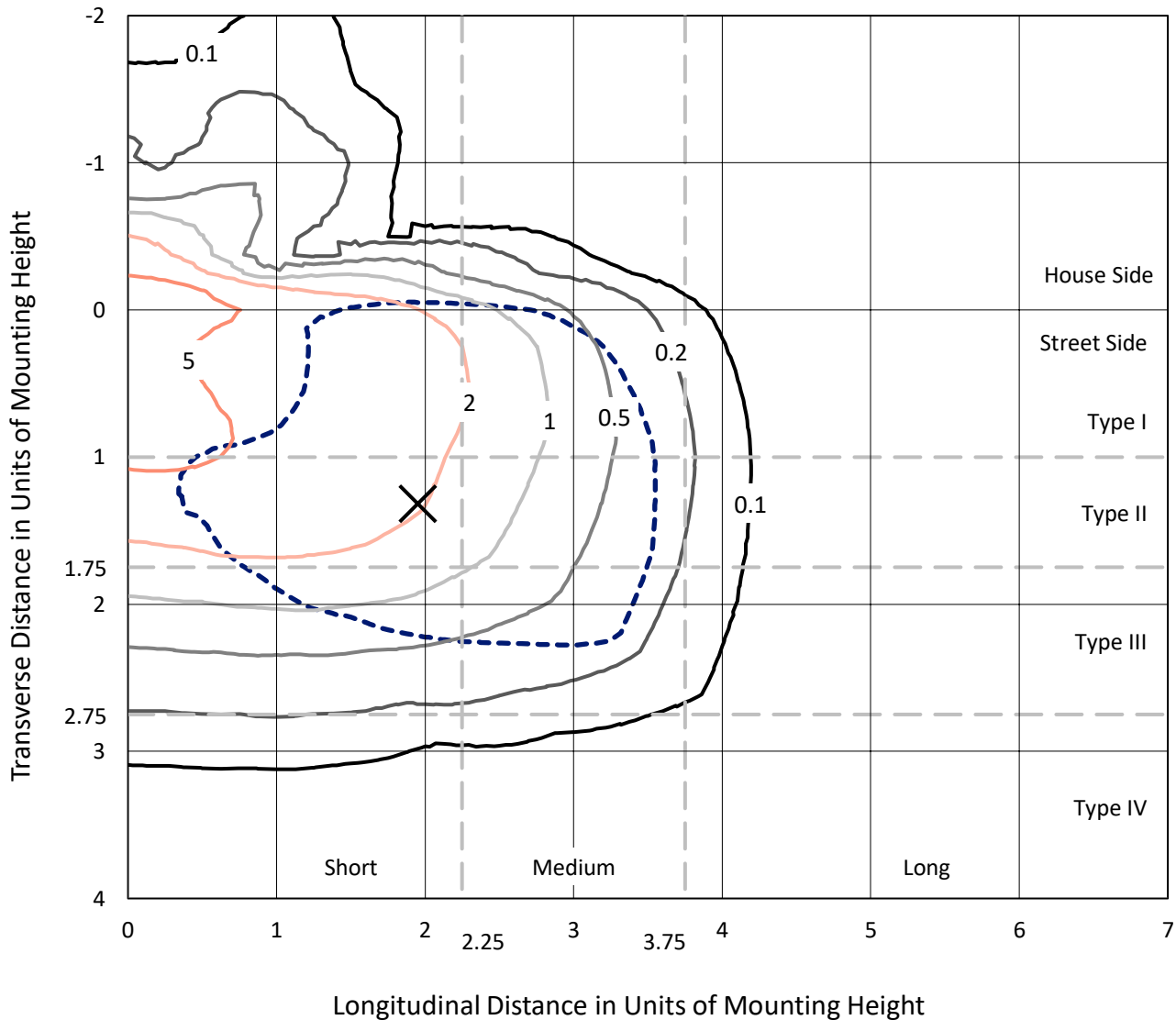
Lumens per Lamp: N/A
Luminaire Lumens: 28141.3 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 247.8
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

REPORT NUMBER: P477679
 CATALOG NUMBER: IFLD-L-SA8A-727-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

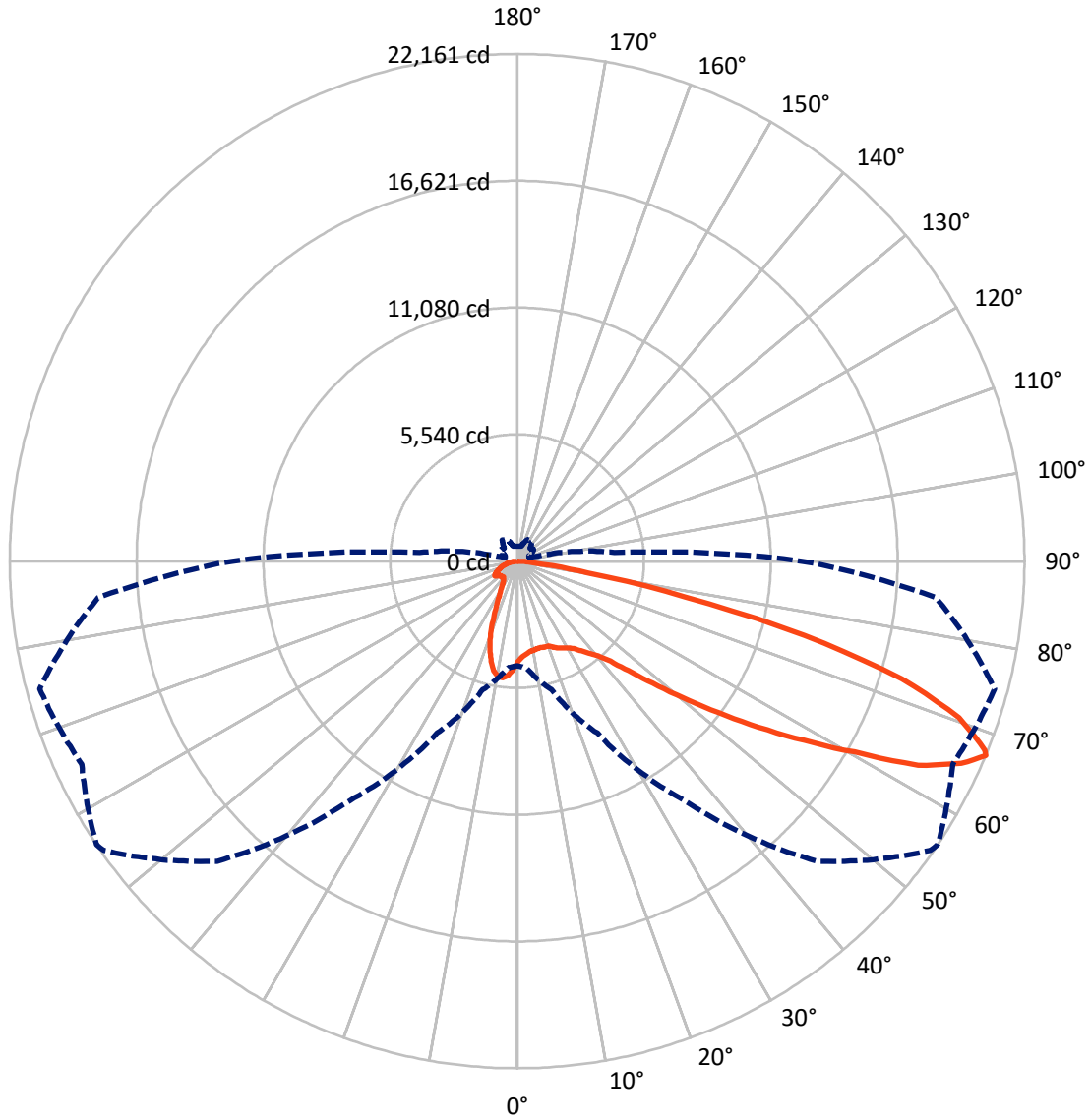
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type III - Short - N/A

REPORT NUMBER: P477679
CATALOG NUMBER: IFLD-L-SA8A-727-U-T3R

Luminous Intensity Polar Plot



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

REPORT NUMBER: P477679
 CATALOG NUMBER: IFLD-L-SA8A-727-U-T3R

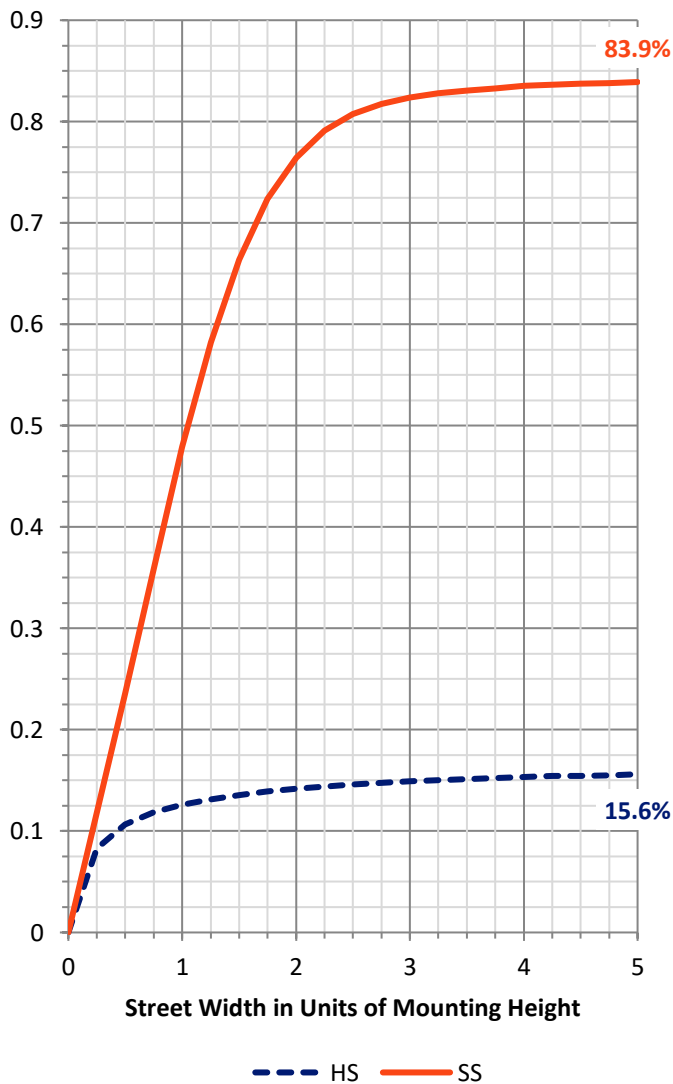
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4455.1	0.0	4455.1
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	23686.3	0.0	23686.3
	% Fixture	84.2	0.0	84.2
Total	Lumens	28141.3	0.0	28141.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	421.8	1.5
10°-20°	1150.8	4.1
20°-30°	1804.8	6.4
30°-40°	2576.4	9.2
40°-50°	3888.5	13.8
50°-60°	6189.9	22.0
60°-70°	7913.3	28.1
70°-80°	3858.2	13.7
80°-90°	337.5	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°	28141.3	100.0
0°-180°	28141.3	100.0

Coefficient of Utilization

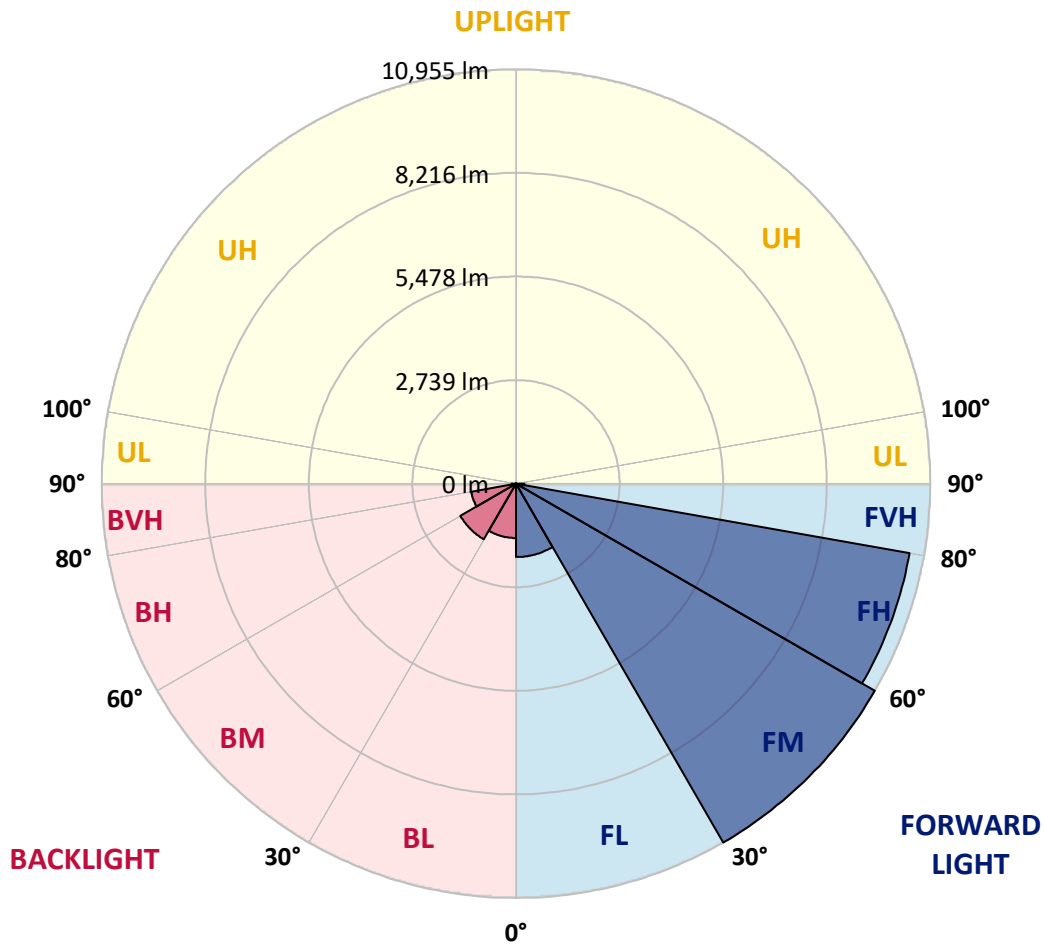


REPORT NUMBER: P477679
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1939.3	6.9			
FM (30°-60°)	10955.2	38.9			
FH (60°-80°)	10567.7	37.6			G4/12000
FVH (80°-90°)	224.2	0.8			G2/225
BL (0°-30°)	1438.2	5.1	B3/2500		
BM (30°-60°)	1699.7	6.0	B2/2500		
BH (60°-80°)	1203.8	4.3	B3/2500		G3/2500
BVH (80°-90°)	113.4	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





REPORT NUMBER: P477679
 CATALOG NUMBER: IFLD-L-SA8A-727-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	4378.7	4378.7	4378.7	4378.7	4378.7	4378.7	4378.7	4378.7	4378.7	4378.7
2.5°	4022.3	4005.8	4025.6	4005.8	4094.9	4147.7	4164.2	4187.3	4269.8	4349.0
5°	3854.1	3781.5	3860.7	3887.1	3893.7	3982.8	4075.1	4091.6	4134.5	4263.2
7.5°	3573.6	3656.1	3626.4	3705.6	3788.1	3877.2	4028.9	3986.0	4144.4	4266.5
10°	3514.2	3520.8	3553.8	3583.5	3656.1	3771.6	3982.8	3956.4	4118.0	4378.7
12.5°	3573.6	3573.6	3563.7	3540.6	3623.1	3735.3	3903.6	3916.8	4170.8	4411.7
15°	3781.5	3821.1	3715.5	3732.0	3699.0	3735.3	3883.8	3913.5	4190.6	4438.1
17.5°	4289.6	4276.4	4151.0	3976.2	3831.0	3807.9	3910.2	3943.2	4170.8	4514.0
20°	4784.6	4758.2	4540.4	4358.9	4071.8	3936.6	3953.1	3956.4	4203.8	4563.5
22.5°	5335.6	5404.9	5167.3	4797.8	4441.4	4104.8	4038.8	4091.6	4279.7	4589.9
25°	6200.2	6051.7	5847.1	5362.0	4787.9	4365.5	4180.7	4207.1	4352.3	4655.9
27.5°	6823.8	6764.4	6444.3	6051.7	5272.9	4570.1	4256.6	4306.1	4484.3	4652.6
30°	7424.3	7424.3	7229.7	6642.3	5784.4	4913.3	4418.3	4395.2	4421.6	4646.0
32.5°	8127.2	8031.5	7751.0	7361.7	6427.8	5226.7	4547.0	4553.6	4553.6	4768.1
35°	8496.8	8651.8	8463.8	7830.2	6919.5	5748.1	4857.2	4807.7	4771.4	4903.4
37.5°	9037.9	9130.3	8932.3	8559.4	7529.9	6170.5	5131.0	5091.5	4880.3	5009.0
40°	9364.6	9348.1	9341.5	9169.9	8338.4	6668.7	5533.6	5431.3	5147.5	5381.8
42.5°	9549.4	9516.4	9922.2	9816.6	9100.6	7401.3	6038.5	5982.4	5668.9	6045.1
45°	9757.2	10001.4	10334.7	10631.7	9988.2	8430.8	6893.1	6813.9	6533.4	7011.9
47.5°	9938.7	10239.0	10664.7	10981.4	10790.1	9549.4	7949.0	7968.8	7784.0	8275.7
50°	10242.3	10272.0	10849.4	11489.6	11638.1	10582.2	9367.9	9334.9	9252.4	9942.0
52.5°	10149.9	10239.0	10968.2	11786.6	12030.7	11674.4	10892.3	10991.3	10882.4	11750.3
55°	8645.2	8912.5	10895.6	12100.0	12961.3	12908.5	12852.4	12786.4	12779.8	13782.9
57.5°	7962.2	8180.0	9598.9	12446.5	13957.8	14347.1	14710.1	14782.7	14779.4	15990.4
60°	7513.4	7737.8	9074.2	12258.4	14805.8	16231.3	16927.5	16937.4	16917.6	18349.7
62.5°	6635.7	6853.5	8166.8	11228.9	15040.1	17970.2	19521.1	19649.8	18742.4	20382.3
65°	5579.8	5758.0	6916.2	9655.0	14416.4	19075.6	21471.2	21319.4	20280.0	21543.8
67°	4563.5	4682.3	5810.8	8288.9	12786.4	18544.4	22035.5	22160.9	20989.5	21593.3
67.5°	4273.1	4382.0	5447.8	7823.6	12166.0	18141.8	22055.3	22035.5	21002.7	21603.2
70°	2966.4	3012.6	3712.2	5381.8	8962.0	15327.2	20445.0	20491.2	20121.6	20431.8
72.5°	1966.6	2035.9	2481.4	3392.1	5282.8	11153.0	17089.2	17584.2	17349.9	16752.6
75°	1267.1	1306.7	1623.5	2019.4	2600.2	6351.9	12624.7	12954.7	12416.8	10361.1
77.5°	709.4	752.3	980.0	1227.5	1267.1	2643.1	7091.1	7500.2	6355.2	4401.8
80°	442.2	498.3	739.1	729.2	603.8	970.1	2923.5	3131.4	2540.8	1514.6
82.5°	333.3	376.2	570.8	511.5	339.9	432.3	1095.5	1174.7	930.5	584.0
85°	227.7	287.1	412.5	316.8	178.2	207.9	435.6	468.6	425.7	283.8
87.5°	82.5	122.1	214.5	158.4	79.2	62.7	141.9	158.4	151.8	128.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P477679
 CATALOG NUMBER: IFLD-L-SA8A-727-U-T3R

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4378.7	0°	4378.7	4378.7	4378.7	4378.7	4378.7	4378.7	4378.7	4378.7	4378.7	4378.7
4418.3	2.5°	4481.0	4527.2	4550.3	4685.6	4741.7	4731.8	4745.0	4764.8	4784.6	4811.0
4474.4	5°	4517.3	4659.2	4735.1	4893.5	4999.1	4952.9	5012.3	4995.8	4972.7	4969.4
4576.7	7.5°	4636.1	4817.6	5045.3	5088.2	5134.3	5018.9	4919.9	4784.6	4751.6	4636.1
4662.5	10°	4847.3	4995.8	5272.9	5289.4	5084.9	4787.9	4566.8	4286.3	4283.0	4114.7
4794.5	12.5°	5048.6	5216.8	5441.2	5345.5	4857.2	4451.3	4091.6	3784.8	3656.1	3570.3
4873.7	15°	5173.9	5451.1	5569.9	5157.4	4457.9	3910.2	3444.9	3114.9	2982.9	2920.2
4972.7	17.5°	5289.4	5675.5	5622.7	4827.5	3966.3	3352.5	2798.2	2511.1	2474.8	2428.6
5131.0	20°	5447.8	5758.0	5434.6	4398.5	3408.6	2633.2	2280.1	2141.5	2174.5	2194.3
5147.5	22.5°	5596.3	5800.9	5197.0	3930.0	2692.6	2085.4	1910.5	1940.2	1989.7	2055.7
5187.1	25°	5662.3	5870.2	4877.0	3283.2	2049.1	1755.4	1715.8	1765.3	1847.8	1851.1
5243.2	27.5°	5705.2	5820.7	4490.9	2653.0	1620.2	1534.4	1593.8	1630.1	1640.0	1679.6
5362.0	30°	5781.1	5718.4	4002.5	1897.3	1359.5	1362.8	1438.7	1438.7	1438.7	1468.4
5480.8	32.5°	5913.1	5649.1	3431.7	1385.9	1171.4	1277.0	1257.2	1250.6	1237.4	1201.1
5632.6	35°	5995.6	5461.0	2709.1	1026.2	1052.6	1171.4	1164.8	1062.5	890.9	805.1
6018.7	37.5°	6167.2	5365.3	1993.0	791.9	983.3	1118.6	1082.3	834.8	646.7	564.3
6497.1	40°	6536.7	5302.6	1379.3	692.9	937.1	1092.2	966.8	712.7	495.0	349.8
7236.3	42.5°	6988.8	5305.9	937.1	653.3	940.4	1148.3	930.5	610.4	349.8	280.5
8222.9	45°	7595.9	5256.4	643.4	653.3	999.8	1240.7	953.6	554.4	339.9	356.4
9460.3	47.5°	8249.3	5299.3	478.5	593.9	1009.7	1244.0	871.1	544.5	326.7	412.5
10806.6	50°	9011.5	5342.2	396.0	547.8	1013.0	1204.4	801.8	531.3	339.9	435.6
12350.8	52.5°	9796.8	5477.5	336.6	518.1	1052.6	1187.9	801.8	551.1	339.9	379.5
14317.4	55°	10968.2	5824.0	485.1	646.7	1197.8	1296.8	986.6	772.1	475.2	488.4
16201.6	57.5°	12261.7	6180.4	541.2	679.7	1230.8	1168.1	1062.5	851.3	501.6	504.9
17666.6	60°	13113.0	6193.6	537.9	663.2	1151.6	1009.7	1039.4	897.5	511.5	432.3
18574.1	62.5°	13452.9	5791.0	561.0	663.2	1072.4	943.7	1065.8	966.8	528.0	541.2
18831.4	65°	13066.9	4959.5	541.2	593.9	943.7	844.7	1072.4	980.0	577.4	544.5
18369.5	67°	12463.0	4273.1	551.1	564.3	877.7	801.8	1128.5	1029.5	669.8	653.3
18128.6	67.5°	12291.4	4091.6	547.8	547.8	854.6	788.6	1141.7	1029.5	683.0	676.4
16000.3	70°	10832.9	3316.2	561.0	541.2	755.6	749.0	1214.3	1085.6	785.3	791.9
11753.6	72.5°	8246.0	2514.4	557.7	541.2	656.6	716.0	1224.2	1121.9	854.6	791.9
6582.9	75°	4685.6	1504.7	491.7	471.9	518.1	623.6	1145.0	1069.1	831.5	709.4
2629.9	77.5°	1936.9	775.4	452.1	425.7	429.0	508.2	953.6	996.5	791.9	603.8
877.7	80°	722.6	465.3	363.0	339.9	330.0	372.9	679.7	795.2	676.4	495.0
386.1	82.5°	376.2	290.4	247.5	247.5	224.4	237.6	366.3	528.0	511.5	339.9
155.1	85°	191.4	165.0	141.9	138.6	125.4	112.2	184.8	313.5	293.7	188.1
69.3	87.5°	102.3	92.4	59.4	56.1	46.2	29.7	33.0	62.7	102.3	82.5
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>
4378.7
4837.4
4999.1
4675.7
4108.1
3550.5
2907.0
2451.7
2171.2
2019.4
1884.1
1715.8
1501.4
1181.3
844.7
561.0
339.9
273.9
363.0
458.7
504.9
389.4
514.8
488.4
445.5
547.8
534.6
643.4
663.2
732.5
702.8
633.5
570.8
452.1
267.3
155.1
59.4
0.0

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