

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: P477653

Luminaire Tested: **IFLD-S-SA3E-727-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477653
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3E-727-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens
Light Source: (48) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

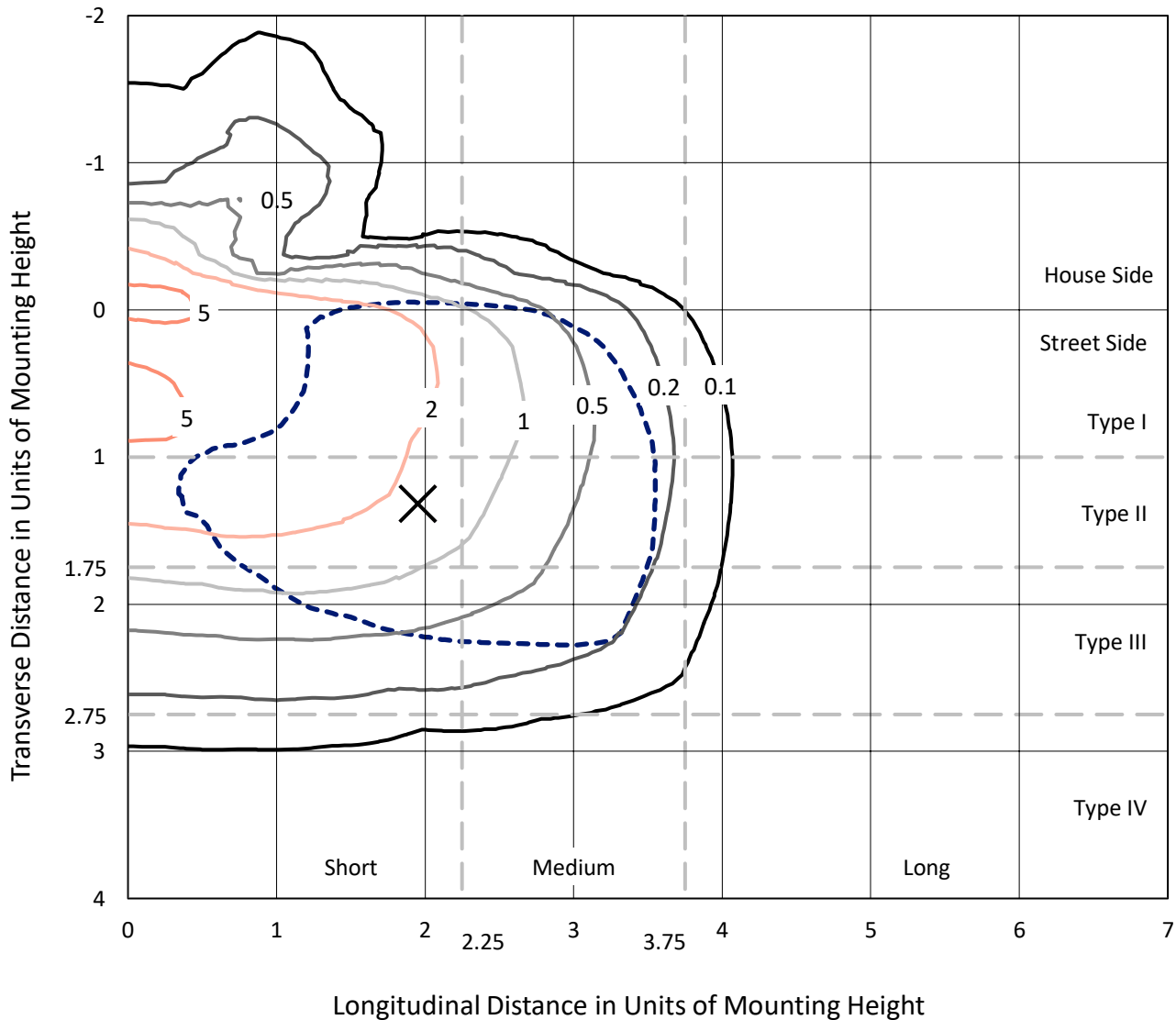
Lumens per Lamp: N/A
Luminaire Lumens: 22158.5 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 232.1
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

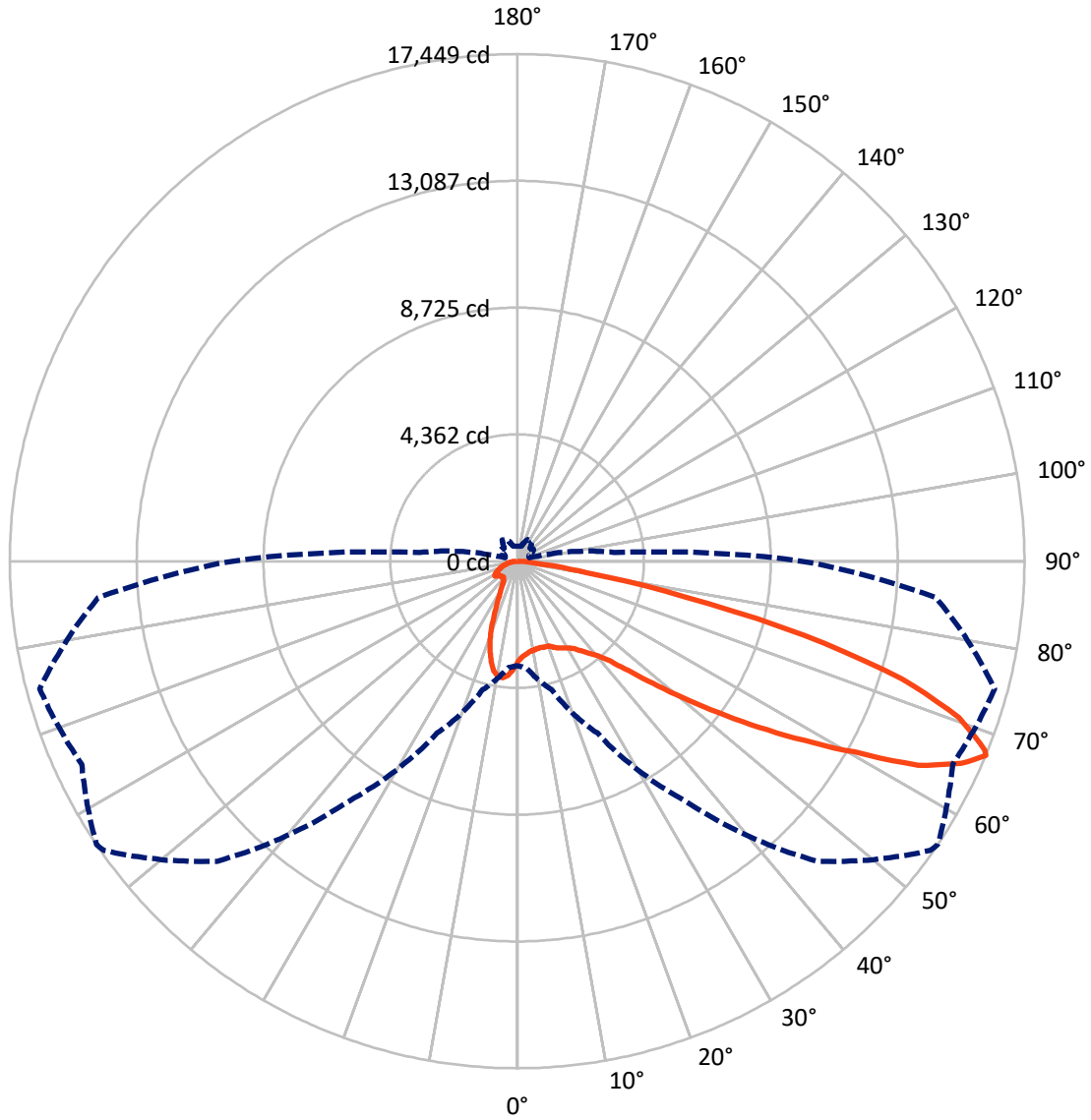
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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	3507.9	0.0	3507.9
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	18650.6	0.0	18650.6
	% Fixture	84.2	0.0	84.2
Total	Lumens	22158.5	0.0	22158.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.2	1.5
10°-20°	906.2	4.1
20°-30°	1421.1	6.4
30°-40°	2028.7	9.2
40°-50°	3061.8	13.8
50°-60°	4873.9	22.0
60°-70°	6230.9	28.1
70°-80°	3038.0	13.7
80°-90°	265.8	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°	22158.5	100.0
0°-180°	22158.5	100.0

Coefficient of Utilization

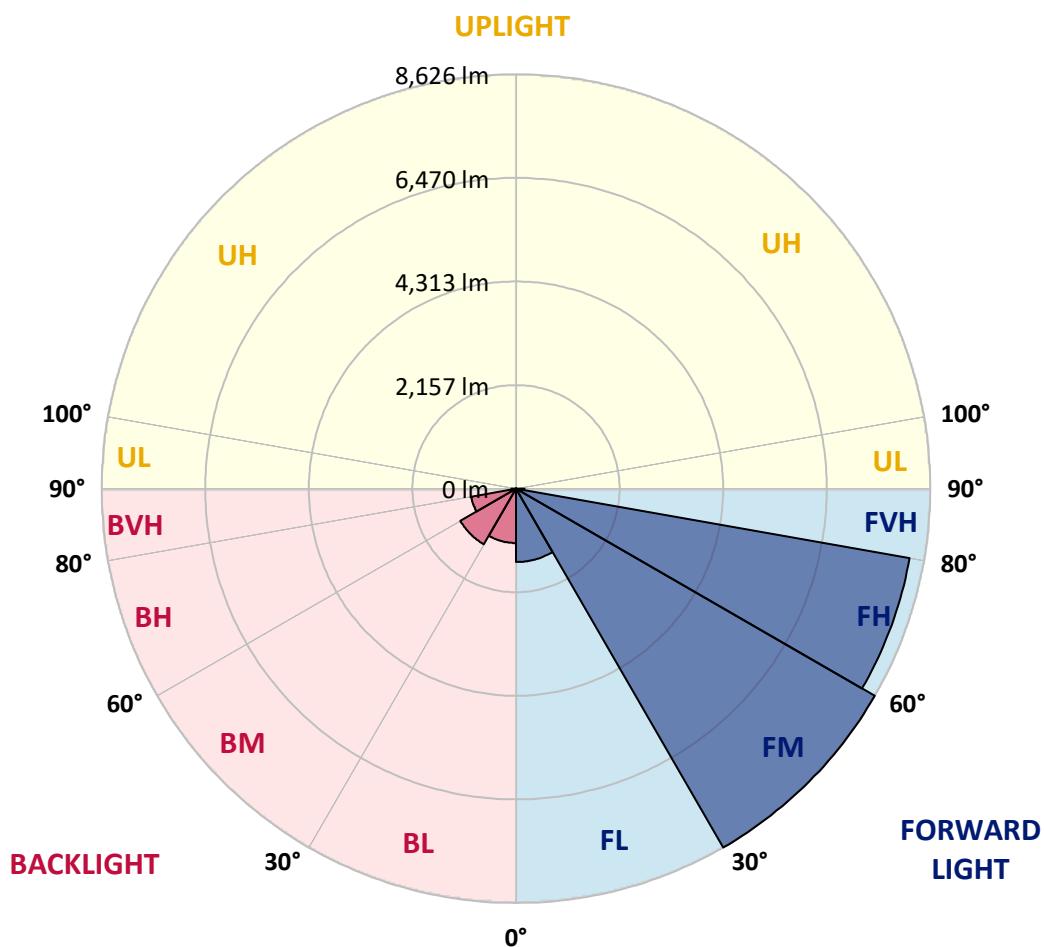


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1527.0	6.9			
FM (30°-60°)	8626.1	38.9			
FH (60°-80°)	8321.0	37.6			G4/12000
FVH (80°-90°)	176.5	0.8			G2/225
BL (0°-30°)	1132.4	5.1	B3/2500		
BM (30°-60°)	1338.3	6.0	B2/2500		
BH (60°-80°)	947.9	4.3	B2/1000		G2/1000
BVH (80°-90°)	89.3	0.4			G1/100
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°	3447.8	3447.8	3447.8	3447.8	3447.8	3447.8	3447.8	3447.8	3447.8	3447.8
2.5°	3167.2	3154.2	3169.8	3154.2	3224.4	3265.9	3278.9	3297.1	3362.1	3424.4
5°	3034.7	2977.5	3039.9	3060.7	3065.9	3136.0	3208.8	3221.8	3255.5	3356.9
7.5°	2813.8	2878.8	2855.4	2917.8	2982.7	3052.9	3172.4	3138.6	3263.3	3359.5
10°	2767.1	2772.3	2798.3	2821.6	2878.8	2969.7	3136.0	3115.2	3242.5	3447.8
12.5°	2813.8	2813.8	2806.0	2787.9	2852.8	2941.2	3073.7	3084.1	3284.1	3473.8
15°	2977.5	3008.7	2925.6	2938.6	2912.6	2941.2	3058.1	3081.5	3299.7	3494.6
17.5°	3377.6	3367.3	3268.5	3130.8	3016.5	2998.3	3078.9	3104.8	3284.1	3554.3
20°	3767.4	3746.6	3575.1	3432.2	3206.2	3099.6	3112.6	3115.2	3310.1	3593.3
22.5°	4201.3	4255.8	4068.8	3777.8	3497.2	3232.1	3180.2	3221.8	3369.9	3614.1
25°	4882.0	4765.1	4604.0	4222.1	3770.0	3437.4	3291.9	3312.7	3427.0	3666.0
27.5°	5373.1	5326.3	5074.3	4765.1	4151.9	3598.5	3351.7	3390.6	3530.9	3663.4
30°	5845.9	5845.9	5692.6	5230.2	4554.6	3868.7	3479.0	3460.8	3481.6	3658.3
32.5°	6399.3	6324.0	6103.1	5796.6	5061.3	4115.5	3580.3	3585.5	3585.5	3754.4
35°	6690.3	6812.5	6664.4	6165.5	5448.4	4526.0	3824.5	3785.6	3757.0	3860.9
37.5°	7116.4	7189.2	7033.3	6739.7	5929.1	4858.6	4040.2	4009.0	3842.7	3944.1
40°	7373.7	7360.7	7355.5	7220.4	6565.6	5250.9	4357.2	4276.6	4053.2	4237.6
42.5°	7519.2	7493.2	7812.8	7729.6	7165.8	5827.7	4754.7	4710.5	4463.7	4759.9
45°	7682.8	7875.1	8137.5	8371.4	7864.7	6638.4	5427.6	5365.3	5144.4	5521.2
47.5°	7825.7	8062.2	8397.4	8646.8	8496.1	7519.2	6259.0	6274.6	6129.1	6516.3
50°	8064.8	8088.2	8542.8	9046.9	9163.8	8332.4	7376.3	7350.3	7285.3	7828.3
52.5°	7992.0	8062.2	8636.4	9280.7	9473.0	9192.4	8576.6	8654.6	8568.8	9252.2
55°	6807.3	7017.7	8579.2	9527.6	10205.7	10164.1	10120.0	10068.0	10062.8	10852.6
57.5°	6269.4	6440.9	7558.1	9800.4	10990.3	11296.9	11582.7	11639.9	11637.3	12590.8
60°	5916.1	6092.8	7145.0	9652.3	11658.1	12780.5	13328.7	13336.5	13320.9	14448.5
62.5°	5225.0	5396.4	6430.5	8841.6	11842.6	14149.7	15370.9	15472.2	14757.7	16049.0
65°	4393.5	4533.8	5445.8	7602.3	11351.5	15020.1	16906.4	16786.9	15968.5	16963.6
67°	3593.3	3686.8	4575.4	6526.7	10068.0	14601.8	17350.7	17449.4	16527.1	17002.6
67.5°	3364.7	3450.4	4289.6	6160.3	9579.5	14284.9	17366.3	17350.7	16537.5	17010.4
70°	2335.8	2372.1	2923.0	4237.6	7056.7	12068.6	16098.4	16134.8	15843.8	16088.0
72.5°	1548.5	1603.1	1953.8	2670.9	4159.7	8781.9	13456.0	13845.8	13661.3	13191.0
75°	997.7	1028.9	1278.3	1590.1	2047.4	5001.5	9940.7	10200.5	9777.0	8158.3
77.5°	558.6	592.4	771.7	966.5	997.7	2081.2	5583.5	5905.7	5004.1	3466.0
80°	348.2	392.3	582.0	574.2	475.5	763.9	2302.0	2465.7	2000.6	1192.6
82.5°	262.4	296.2	449.5	402.7	267.6	340.4	862.6	925.0	732.7	459.9
85°	179.3	226.0	324.8	249.4	140.3	163.7	343.0	368.9	335.2	223.4
87.5°	65.0	96.1	168.9	124.7	62.4	49.4	111.7	124.7	119.5	101.3
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°
3447.8	0°	3447.8	3447.8	3447.8	3447.8	3447.8	3447.8	3447.8	3447.8	3447.8	3447.8
3479.0	2.5°	3528.3	3564.7	3582.9	3689.4	3733.6	3725.8	3736.2	3751.8	3767.4	3788.2
3523.1	5°	3556.9	3668.6	3728.4	3853.1	3936.3	3899.9	3946.7	3933.7	3915.5	3912.9
3603.7	7.5°	3650.5	3793.4	3972.6	4006.4	4042.8	3951.8	3873.9	3767.4	3741.4	3650.5
3671.2	10°	3816.7	3933.7	4151.9	4164.9	4003.8	3770.0	3595.9	3375.0	3372.5	3239.9
3775.2	12.5°	3975.2	4107.7	4284.4	4209.1	3824.5	3505.0	3221.8	2980.1	2878.8	2811.2
3837.5	15°	4074.0	4292.2	4385.7	4061.0	3510.2	3078.9	2712.5	2452.7	2348.8	2299.4
3915.5	17.5°	4164.9	4468.9	4427.3	3801.2	3123.0	2639.8	2203.3	1977.2	1948.6	1912.3
4040.2	20°	4289.6	4533.8	4279.2	3463.4	2683.9	2073.4	1795.3	1686.2	1712.2	1727.8
4053.2	22.5°	4406.5	4567.6	4092.1	3094.4	2120.1	1642.1	1504.4	1527.7	1566.7	1618.7
4084.4	25°	4458.5	4622.2	3840.1	2585.2	1613.5	1382.2	1351.1	1390.0	1455.0	1457.6
4128.5	27.5°	4492.3	4583.2	3536.1	2088.9	1275.7	1208.2	1254.9	1283.5	1291.3	1322.5
4222.1	30°	4552.0	4502.7	3151.6	1494.0	1070.5	1073.1	1132.8	1132.8	1132.8	1156.2
4315.6	32.5°	4656.0	4448.1	2702.1	1091.2	922.4	1005.5	989.9	984.7	974.3	945.7
4435.1	35°	4720.9	4300.0	2133.1	808.0	828.8	922.4	917.2	836.6	701.5	634.0
4739.1	37.5°	4856.0	4224.7	1569.3	623.6	774.3	880.8	852.2	657.3	509.2	444.3
5115.8	40°	5147.0	4175.3	1086.0	545.6	737.9	860.0	761.3	561.2	389.7	275.4
5697.8	42.5°	5503.0	4177.9	737.9	514.4	740.5	904.2	732.7	480.7	275.4	220.8
6474.7	45°	5981.0	4138.9	506.6	514.4	787.3	976.9	750.9	436.5	267.6	280.6
7449.0	47.5°	6495.5	4172.7	376.7	467.7	795.0	979.5	685.9	428.7	257.2	324.8
8509.1	50°	7095.7	4206.5	311.8	431.3	797.6	948.3	631.4	418.3	267.6	343.0
9725.0	52.5°	7714.0	4313.0	265.0	407.9	828.8	935.3	631.4	433.9	267.6	298.8
11273.5	55°	8636.4	4585.8	381.9	509.2	943.1	1021.1	776.9	608.0	374.1	384.5
12757.1	57.5°	9654.9	4866.4	426.1	535.2	969.1	919.8	836.6	670.3	394.9	397.5
13910.7	60°	10325.2	4876.8	423.5	522.2	906.8	795.0	818.4	706.7	402.7	340.4
14625.2	62.5°	10592.8	4559.8	441.7	522.2	844.4	743.1	839.2	761.3	415.7	426.1
14827.9	65°	10288.8	3905.1	426.1	467.7	743.1	665.1	844.4	771.7	454.7	428.7
14464.1	67°	9813.4	3364.7	433.9	444.3	691.1	631.4	888.6	810.6	527.4	514.4
14274.5	67.5°	9678.3	3221.8	431.3	431.3	672.9	621.0	899.0	810.6	537.8	532.6
12598.6	70°	8529.9	2611.2	441.7	426.1	595.0	589.8	956.1	854.8	618.4	623.6
9254.8	72.5°	6492.9	1979.8	439.1	426.1	517.0	563.8	963.9	883.4	672.9	623.6
5183.4	75°	3689.4	1184.8	387.1	371.5	407.9	491.1	901.6	841.8	654.7	558.6
2070.8	77.5°	1525.1	610.6	356.0	335.2	337.8	400.1	750.9	784.7	623.6	475.5
691.1	80°	569.0	366.3	285.8	267.6	259.8	293.6	535.2	626.2	532.6	389.7
304.0	82.5°	296.2	228.6	194.9	194.9	176.7	187.1	288.4	415.7	402.7	267.6
122.1	85°	150.7	129.9	111.7	109.1	98.7	88.3	145.5	246.8	231.2	148.1
54.6	87.5°	80.5	72.7	46.8	44.2	36.4	23.4	26.0	49.4	80.5	65.0
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>
3447.8
3808.9
3936.3
3681.6
3234.7
2795.7
2289.0
1930.5
1709.6
1590.1
1483.6
1351.1
1182.2
930.2
665.1
441.7
267.6
215.6
285.8
361.1
397.5
306.6
405.3
384.5
350.8
431.3
420.9
506.6
522.2
576.8
553.4
498.9
449.5
356.0
210.5
122.1
46.8
0.0

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