

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: P477640

Luminaire Tested: **IFLD-L-SA8A-722-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477640
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-722-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (128) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

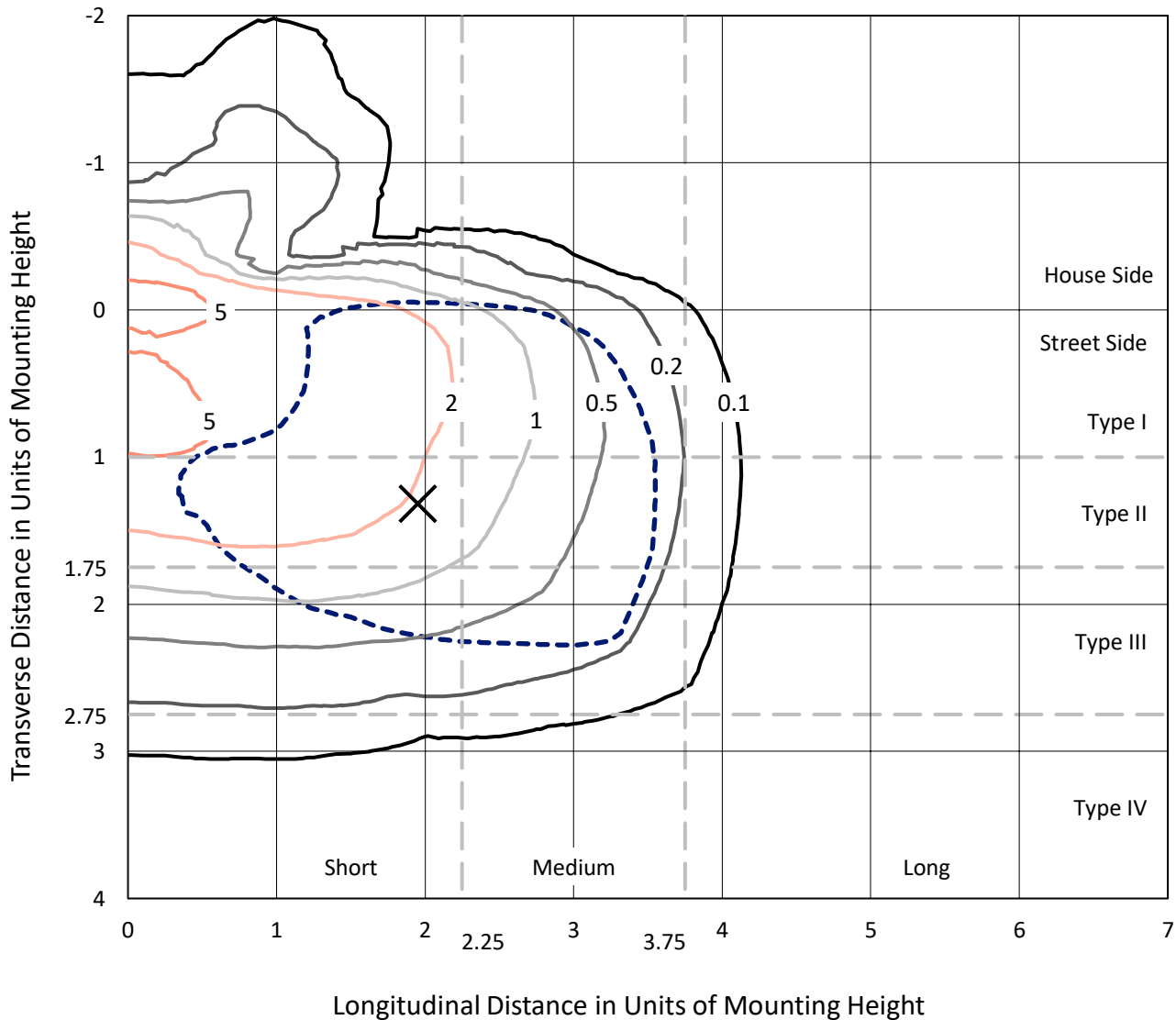
Lumens per Lamp: N/A
Luminaire Lumens: 24786.4 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

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

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Iso-Footcandle Lines of Horizontal Illumination

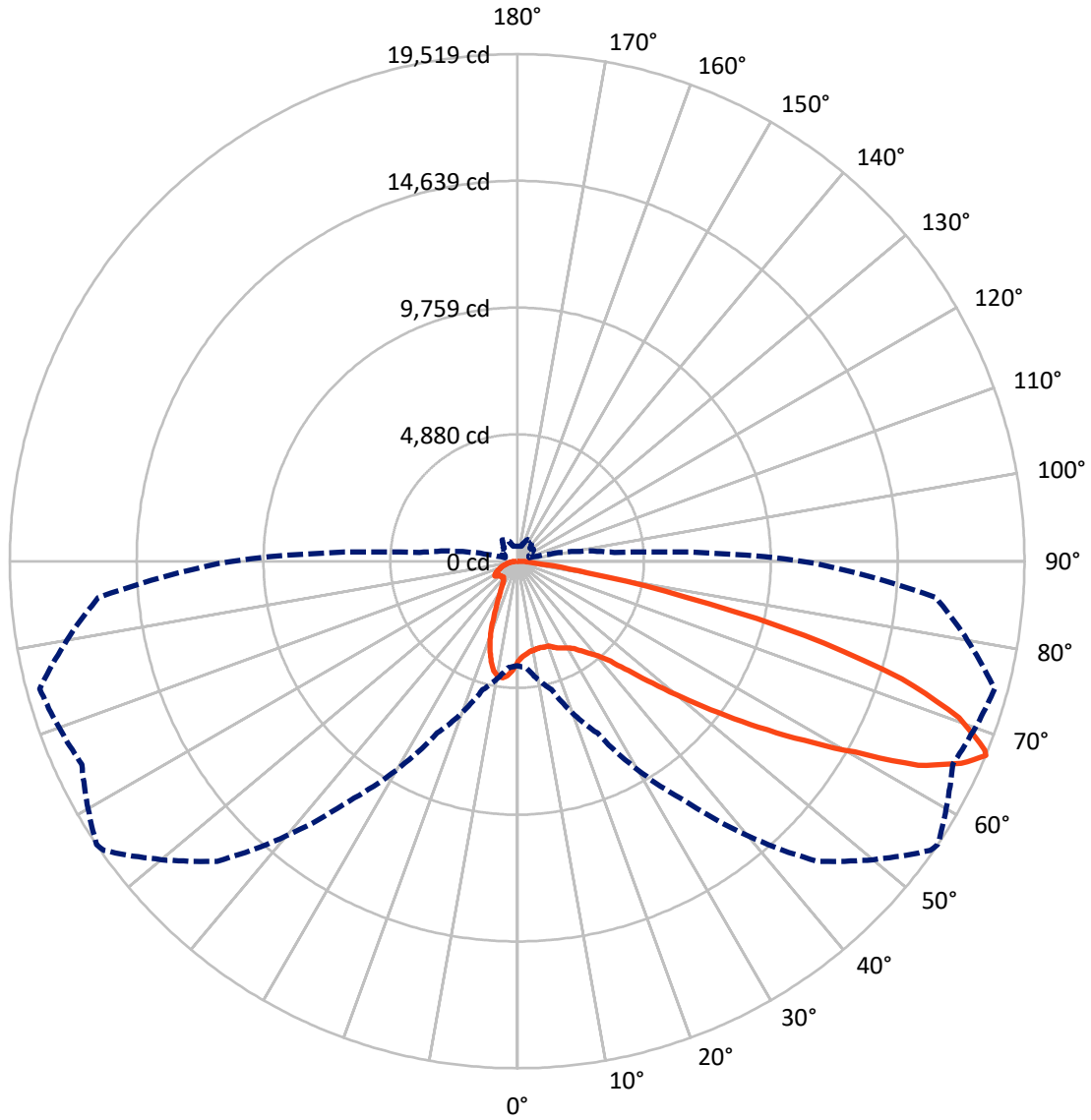
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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	3924.0	0.0	3924.0
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	20862.5	0.0	20862.5
	% Fixture	84.2	0.0	84.2
Total	Lumens	24786.4	0.0	24786.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.5	1.5
10°-20°	1013.6	4.1
20°-30°	1589.7	6.4
30°-40°	2269.3	9.2
40°-50°	3425.0	13.8
50°-60°	5451.9	22.0
60°-70°	6969.9	28.1
70°-80°	3398.3	13.7
80°-90°	297.3	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°	24786.4	100.0
0°-180°	24786.4	100.0

Coefficient of Utilization

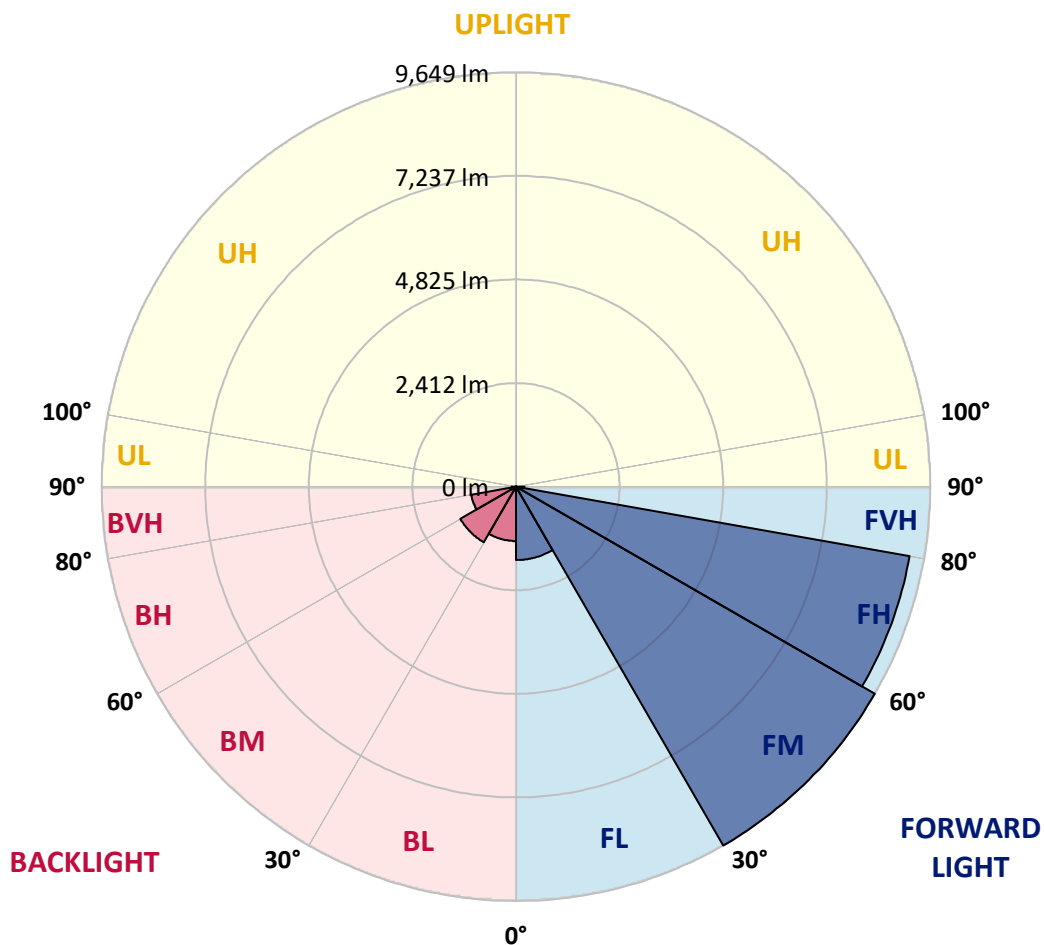


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1708.1	6.9			
FM (30°-60°)	9649.1	38.9			
FH (60°-80°)	9307.9	37.6			G4/12000
FVH (80°-90°)	197.4	0.8			G2/225
BL (0°-30°)	1266.8	5.1	B3/2500		
BM (30°-60°)	1497.0	6.0	B2/2500		
BH (60°-80°)	1060.3	4.3	B3/2500		G3/2500
BVH (80°-90°)	99.9	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°	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7
2.5°	3542.8	3528.3	3545.7	3528.3	3606.8	3653.3	3667.8	3688.1	3760.8	3830.5
5°	3394.6	3330.7	3400.4	3423.7	3429.5	3507.9	3589.3	3603.9	3641.6	3755.0
7.5°	3147.6	3220.2	3194.1	3263.8	3336.5	3414.9	3548.6	3510.9	3650.4	3757.9
10°	3095.2	3101.1	3130.1	3156.3	3220.2	3321.9	3507.9	3484.7	3627.1	3856.7
12.5°	3147.6	3147.6	3138.8	3118.5	3191.2	3290.0	3438.2	3449.8	3673.6	3885.8
15°	3330.7	3365.5	3272.5	3287.1	3258.0	3290.0	3420.8	3446.9	3691.0	3909.0
17.5°	3778.2	3766.6	3656.2	3502.1	3374.3	3353.9	3444.0	3473.1	3673.6	3975.9
20°	4214.2	4190.9	3999.1	3839.3	3586.4	3467.3	3481.8	3484.7	3702.7	4019.5
22.5°	4699.5	4760.6	4551.3	4225.8	3911.9	3615.5	3557.4	3603.9	3769.5	4042.7
25°	5461.0	5330.2	5150.0	4722.8	4217.1	3845.1	3682.3	3705.6	3833.5	4100.8
27.5°	6010.3	5958.0	5676.1	5330.2	4644.3	4025.3	3749.2	3792.8	3949.7	4097.9
30°	6539.2	6539.2	6367.8	5850.4	5094.8	4327.5	3891.6	3871.2	3894.5	4092.1
32.5°	7158.3	7074.0	6827.0	6484.0	5661.5	4603.6	4004.9	4010.7	4010.7	4199.7
35°	7483.8	7620.4	7454.7	6896.7	6094.6	5062.8	4278.1	4234.5	4202.6	4318.8
37.5°	7960.4	8041.8	7867.4	7539.0	6632.3	5434.8	4519.3	4484.5	4298.5	4411.8
40°	8248.2	8233.6	8227.8	8076.7	7344.3	5873.7	4873.9	4783.8	4533.9	4740.2
42.5°	8410.9	8381.9	8739.3	8646.3	8015.7	6518.9	5318.6	5269.2	4993.1	5324.4
45°	8594.0	8809.1	9102.6	9364.2	8797.5	7425.7	6071.3	6001.6	5754.5	6176.0
47.5°	8753.9	9018.4	9393.3	9672.3	9503.7	8410.9	7001.4	7018.8	6856.0	7289.1
50°	9021.3	9047.4	9556.0	10119.9	10250.6	9320.6	8251.1	8222.0	8149.4	8756.8
52.5°	8939.9	9018.4	9660.7	10381.4	10596.5	10282.6	9593.8	9681.0	9585.1	10349.5
55°	7614.6	7850.0	9596.7	10657.5	11416.1	11369.6	11320.2	11262.0	11256.2	12139.8
57.5°	7013.0	7204.8	8454.5	10962.7	12293.8	12636.7	12956.4	13020.4	13017.5	14084.1
60°	6617.7	6815.4	7992.4	10797.0	13040.7	14296.3	14909.5	14918.2	14900.8	16162.1
62.5°	5844.6	6036.5	7193.2	9890.3	13247.1	15827.9	17193.9	17307.2	16508.0	17952.4
65°	4914.6	5071.6	6091.7	8503.9	12697.8	16801.5	18911.5	18777.8	17862.3	18975.5
67°	4019.5	4124.1	5118.1	7300.7	11262.0	16333.6	19408.5	19518.9	18487.2	19019.0
67.5°	3763.7	3859.6	4798.4	6890.9	10715.7	15979.0	19425.9	19408.5	18498.8	19027.8
70°	2612.8	2653.5	3269.6	4740.2	7893.6	13499.9	18007.6	18048.3	17722.8	17996.0
72.5°	1732.2	1793.2	2185.6	2987.7	4653.0	9823.4	15051.9	15487.9	15281.5	14755.5
75°	1116.0	1150.9	1429.9	1778.7	2290.2	5594.7	11119.6	11410.3	10936.5	9125.9
77.5°	624.9	662.6	863.2	1081.2	1116.0	2328.0	6245.7	6606.1	5597.6	3877.0
80°	389.4	438.9	651.0	642.3	531.9	854.5	2575.0	2758.1	2237.9	1334.0
82.5°	293.5	331.3	502.8	450.5	299.4	380.7	964.9	1034.7	819.6	514.4
85°	200.5	252.9	363.3	279.0	156.9	183.1	383.6	412.7	374.9	249.9
87.5°	72.7	107.5	188.9	139.5	69.8	55.2	125.0	139.5	133.7	113.3
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°
3856.7	0°	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7
3891.6	2.5°	3946.8	3987.5	4007.8	4127.0	4176.4	4167.7	4179.3	4196.7	4214.2	4237.4
3941.0	5°	3978.8	4103.7	4170.6	4310.1	4403.1	4362.4	4414.7	4400.2	4379.8	4376.9
4031.1	7.5°	4083.4	4243.2	4443.8	4481.6	4522.3	4420.5	4333.3	4214.2	4185.1	4083.4
4106.6	10°	4269.4	4400.2	4644.3	4658.9	4478.7	4217.1	4022.4	3775.3	3772.4	3624.2
4222.9	12.5°	4446.7	4594.9	4792.5	4708.3	4278.1	3920.6	3603.9	3333.6	3220.2	3144.7
4292.7	15°	4557.1	4801.3	4905.9	4542.6	3926.5	3444.0	3034.2	2743.6	2627.3	2572.1
4379.8	17.5°	4658.9	4998.9	4952.4	4252.0	3493.4	2952.8	2464.6	2211.7	2179.7	2139.1
4519.3	20°	4798.4	5071.6	4786.7	3874.1	3002.2	2319.3	2008.3	1886.2	1915.3	1932.7
4533.9	22.5°	4929.1	5109.3	4577.5	3461.4	2371.6	1836.8	1682.8	1708.9	1752.5	1810.6
4568.8	25°	4987.3	5170.4	4295.6	2891.8	1804.8	1546.2	1511.3	1554.9	1627.5	1630.5
4618.2	27.5°	5025.1	5126.8	3955.5	2336.7	1427.0	1351.4	1403.8	1435.7	1444.4	1479.3
4722.8	30°	5091.9	5036.7	3525.4	1671.1	1197.4	1200.3	1267.2	1267.2	1267.2	1293.3
4827.4	32.5°	5208.1	4975.6	3022.6	1220.7	1031.7	1124.8	1107.3	1101.5	1089.9	1057.9
4961.1	35°	5280.8	4810.0	2386.1	903.9	927.1	1031.7	1025.9	935.8	784.7	709.1
5301.2	37.5°	5431.9	4725.7	1755.4	697.5	866.1	985.2	953.3	735.3	569.6	497.0
5722.6	40°	5757.4	4670.5	1214.8	610.3	825.4	962.0	851.6	627.8	435.9	308.1
6373.6	42.5°	6155.6	4673.4	825.4	575.5	828.3	1011.4	819.6	537.7	308.1	247.0
7242.6	45°	6690.4	4629.8	566.7	575.5	880.6	1092.8	839.9	488.3	299.4	313.9
8332.5	47.5°	7265.8	4667.6	421.4	523.1	889.3	1095.7	767.3	479.5	287.7	363.3
9518.2	50°	7937.2	4705.4	348.8	482.5	892.2	1060.8	706.2	467.9	299.4	383.6
10878.4	52.5°	8628.9	4824.5	296.4	456.3	927.1	1046.3	706.2	485.4	299.4	334.2
12610.6	55°	9660.7	5129.7	427.2	569.6	1055.0	1142.2	869.0	680.1	418.5	430.1
14270.1	57.5°	10799.9	5443.6	476.6	598.7	1084.1	1028.8	935.8	749.8	441.8	444.7
15560.5	60°	11549.8	5455.2	473.7	584.2	1014.3	889.3	915.5	790.5	450.5	380.7
16359.8	62.5°	11849.1	5100.6	494.1	584.2	944.6	831.2	938.7	851.6	465.0	476.6
16586.4	65°	11509.1	4368.2	476.6	523.1	831.2	744.0	944.6	863.2	508.6	479.5
16179.6	67°	10977.2	3763.7	485.4	497.0	773.1	706.2	994.0	906.8	590.0	575.5
15967.4	67.5°	10826.1	3603.9	482.5	482.5	752.7	694.6	1005.6	906.8	601.6	595.8
14092.8	70°	9541.5	2920.9	494.1	476.6	665.6	659.7	1069.5	956.2	691.7	697.5
10352.4	72.5°	7262.9	2214.6	491.2	476.6	578.4	630.7	1078.2	988.2	752.7	697.5
5798.1	75°	4127.0	1325.3	433.0	415.6	456.3	549.3	1008.5	941.7	732.4	624.9
2316.3	77.5°	1706.0	683.0	398.2	374.9	377.8	447.6	839.9	877.7	697.5	531.9
773.1	80°	636.5	409.8	319.7	299.4	290.6	328.4	598.7	700.4	595.8	435.9
340.0	82.5°	331.3	255.8	218.0	218.0	197.6	209.3	322.6	465.0	450.5	299.4
136.6	85°	168.6	145.3	125.0	122.1	110.4	98.8	162.8	276.1	258.7	165.7
61.0	87.5°	90.1	81.4	52.3	49.4	40.7	26.2	29.1	55.2	90.1	72.7
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>
3856.7
4260.7
4403.1
4118.3
3618.4
3127.2
2560.5
2159.4
1912.4
1778.7
1659.5
1511.3
1322.4
1040.5
744.0
494.1
299.4
241.2
319.7
404.0
444.7
342.9
453.4
430.1
392.4
482.5
470.8
566.7
584.2
645.2
619.0
558.0
502.8
398.2
235.4
136.6
52.3
0.0

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