

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: P477671

Luminaire Tested: **IFLD-M-SA4C-727-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477671
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-727-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (64) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

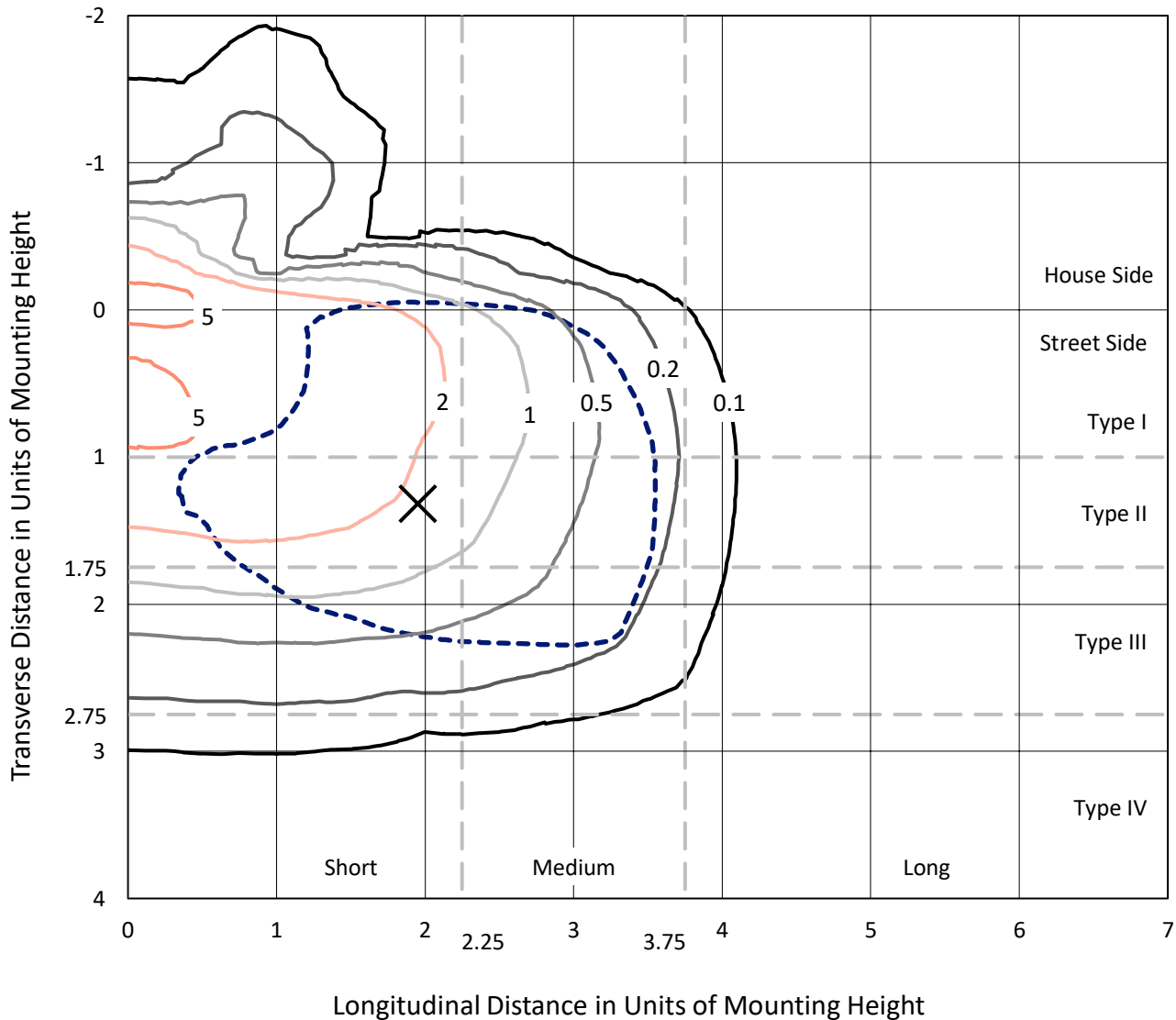
Lumens per Lamp: N/A
Luminaire Lumens: 23356.5 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 218.1
Input Voltage (V): 120
Input Current (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

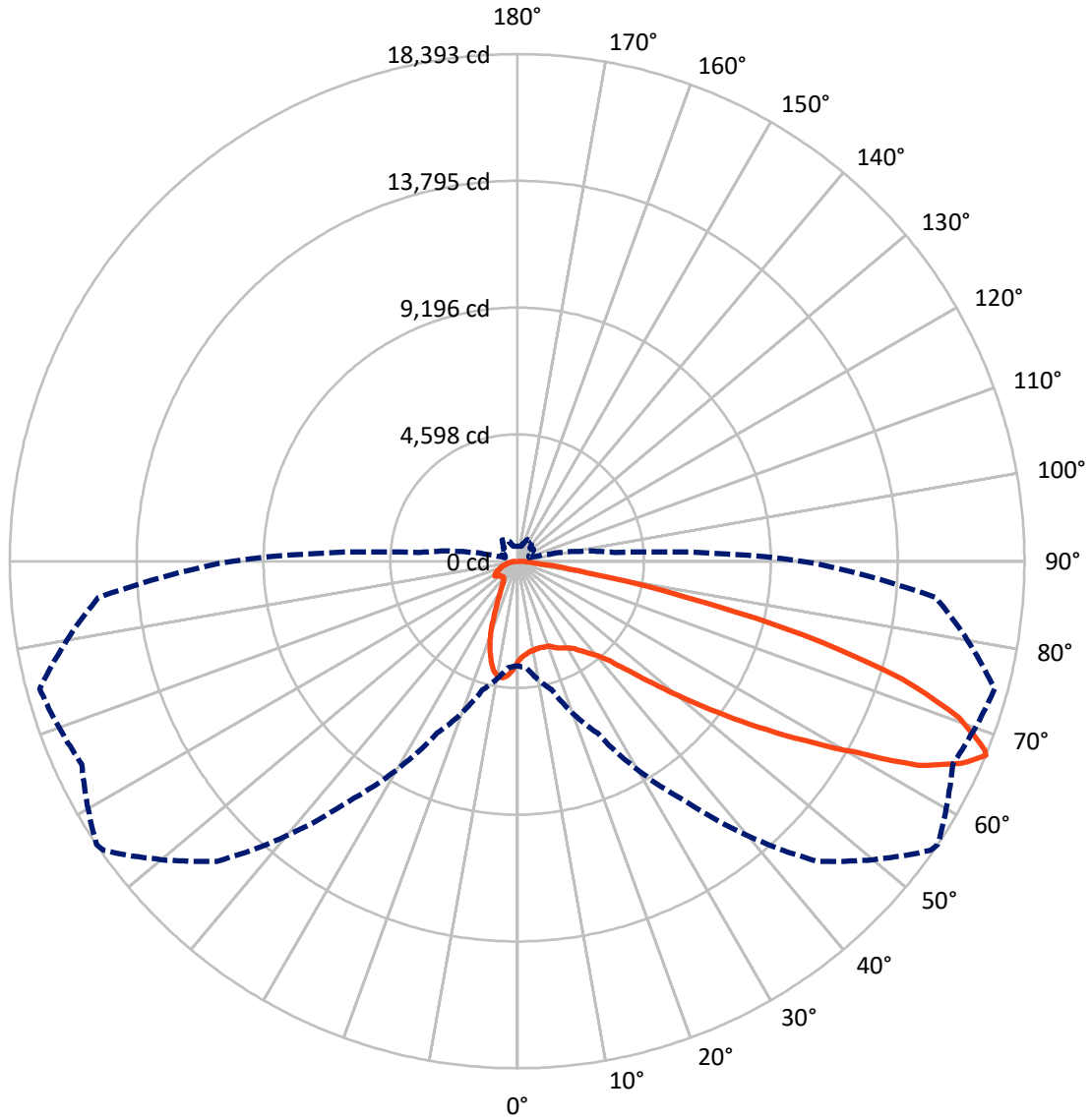
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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	3697.6	0.0	3697.6
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	19658.9	0.0	19658.9
	% Fixture	84.2	0.0	84.2
Total	Lumens	23356.5	0.0	23356.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	350.1	1.5
10°-20°	955.1	4.1
20°-30°	1497.9	6.4
30°-40°	2138.3	9.2
40°-50°	3227.4	13.8
50°-60°	5137.4	22.0
60°-70°	6567.8	28.1
70°-80°	3202.2	13.7
80°-90°	280.1	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°	23356.5	100.0
0°-180°	23356.5	100.0

Coefficient of Utilization



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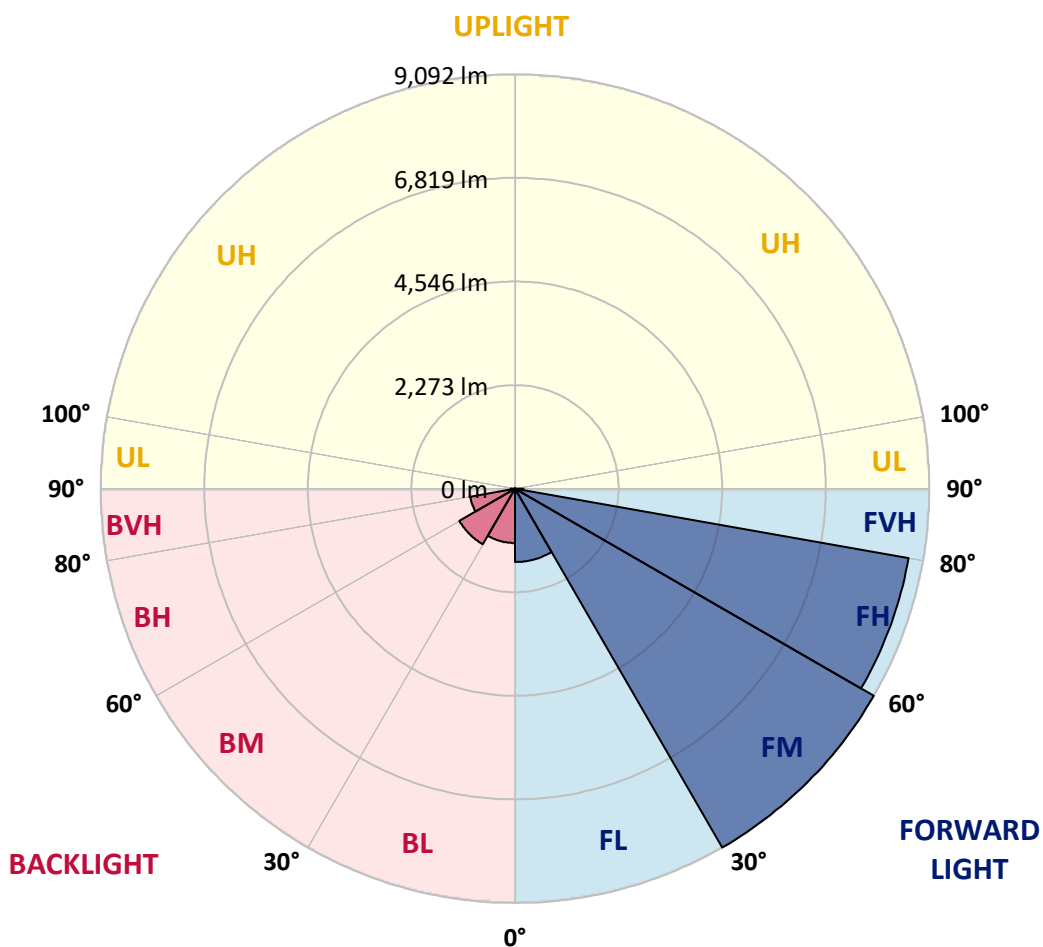
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1609.5	6.9			
FM (30°-60°)	9092.5	38.9			
FH (60°-80°)	8770.9	37.6			G4/12000
FVH (80°-90°)	186.0	0.8			G2/225
BL (0°-30°)	1193.7	5.1	B3/2500		
BM (30°-60°)	1410.7	6.0	B2/2500		
BH (60°-80°)	999.2	4.3	B2/1000		G2/1000
BVH (80°-90°)	94.1	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°	3634.2	3634.2	3634.2	3634.2	3634.2	3634.2	3634.2	3634.2	3634.2	3634.2
2.5°	3338.4	3324.7	3341.2	3324.7	3398.7	3442.5	3456.2	3475.4	3543.8	3609.6
5°	3198.8	3138.5	3204.2	3226.1	3231.6	3305.6	3382.2	3395.9	3431.5	3538.4
7.5°	2966.0	3034.4	3009.8	3075.5	3144.0	3217.9	3343.9	3308.3	3439.8	3541.1
10°	2916.7	2922.2	2949.5	2974.2	3034.4	3130.3	3305.6	3283.7	3417.9	3634.2
12.5°	2966.0	2966.0	2957.8	2938.6	3007.1	3100.2	3239.8	3250.8	3461.7	3661.6
15°	3138.5	3171.4	3083.7	3097.4	3070.0	3100.2	3223.4	3248.1	3478.1	3683.5
17.5°	3560.3	3549.3	3445.2	3300.1	3179.6	3160.4	3245.3	3272.7	3461.7	3746.5
20°	3971.1	3949.2	3768.4	3617.8	3379.5	3267.2	3280.9	3283.7	3489.1	3787.6
22.5°	4428.4	4485.9	4288.7	3982.0	3686.2	3406.9	3352.1	3395.9	3552.0	3809.5
25°	5145.9	5022.7	4852.9	4450.3	3973.8	3623.3	3469.9	3491.8	3612.3	3864.3
27.5°	5663.6	5614.3	5348.6	5022.7	4376.4	3793.0	3532.9	3574.0	3721.8	3861.5
30°	6162.0	6162.0	6000.4	5512.9	4800.9	4077.9	3667.1	3647.9	3669.8	3856.0
32.5°	6745.3	6665.9	6433.1	6110.0	5334.9	4338.0	3773.9	3779.4	3779.4	3957.4
35°	7052.1	7180.8	7024.7	6498.8	5743.0	4770.8	4031.3	3990.2	3960.1	4069.7
37.5°	7501.2	7577.9	7413.6	7104.1	6249.6	5121.3	4258.6	4225.8	4050.5	4157.3
40°	7772.3	7758.6	7753.2	7610.7	6920.6	5534.8	4592.7	4507.8	4272.3	4466.8
42.5°	7925.7	7898.3	8235.2	8147.5	7553.2	6142.8	5011.8	4965.2	4705.0	5017.2
45°	8098.2	8300.9	8577.5	8824.0	8289.9	6997.3	5721.1	5655.3	5422.6	5819.7
47.5°	8248.9	8498.1	8851.4	9114.3	8955.4	7925.7	6597.4	6613.9	6460.5	6868.6
50°	8500.8	8525.5	9004.7	9536.0	9659.3	8782.9	7775.1	7747.7	7679.2	8251.6
52.5°	8424.1	8498.1	9103.3	9782.5	9985.2	9689.4	9040.3	9122.5	9032.1	9752.4
55°	7175.3	7397.1	9043.1	10042.7	10757.5	10713.7	10667.1	10612.3	10606.8	11439.4
57.5°	6608.4	6789.1	7966.8	10330.2	11584.5	11907.7	12209.0	12269.2	12266.5	13271.6
60°	6235.9	6422.2	7531.3	10174.1	12288.4	13471.5	14049.3	14057.6	14041.1	15229.7
62.5°	5507.5	5688.2	6778.2	9319.7	12482.8	14914.8	16201.9	16308.7	15555.6	16916.7
65°	4631.1	4779.0	5740.2	8013.3	11965.2	15832.2	17820.5	17694.5	16831.8	17880.7
67°	3787.6	3886.2	4822.8	6879.5	10612.3	15391.3	18288.8	18392.9	17420.6	17921.8
67.5°	3546.6	3636.9	4521.5	6493.4	10097.5	15057.2	18305.2	18288.8	17431.6	17930.0
70°	2462.1	2500.4	3081.0	4466.8	7438.2	12721.1	16968.8	17007.1	16700.4	16957.8
72.5°	1632.2	1689.8	2059.5	2815.3	4384.6	9256.7	14183.5	14594.3	14399.9	13904.2
75°	1051.6	1084.5	1347.4	1676.1	2158.1	5271.9	10478.1	10752.0	10305.6	8599.4
77.5°	588.8	624.4	813.4	1018.8	1051.6	2193.7	5885.4	6225.0	5274.7	3653.4
80°	367.0	413.5	613.5	605.2	501.2	805.2	2426.5	2599.0	2108.8	1257.0
82.5°	276.6	312.2	473.8	424.5	282.1	358.8	909.2	975.0	772.3	484.7
85°	189.0	238.3	342.3	262.9	147.9	172.5	361.5	388.9	353.3	235.5
87.5°	68.5	101.3	178.0	131.5	65.7	52.0	117.8	131.5	126.0	106.8
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°
3634.2	0°	3634.2	3634.2	3634.2	3634.2	3634.2	3634.2	3634.2	3634.2	3634.2	3634.2
3667.1	2.5°	3719.1	3757.4	3776.6	3888.9	3935.5	3927.2	3938.2	3954.6	3971.1	3993.0
3713.6	5°	3749.2	3867.0	3930.0	4061.4	4149.1	4110.7	4160.0	4146.3	4127.2	4124.4
3798.5	7.5°	3847.8	3998.4	4187.4	4223.0	4261.4	4165.5	4083.3	3971.1	3943.7	3847.8
3869.7	10°	4023.1	4146.3	4376.4	4390.1	4220.3	3973.8	3790.3	3557.5	3554.8	3415.1
3979.3	12.5°	4190.2	4329.8	4516.1	4436.6	4031.3	3694.5	3395.9	3141.2	3034.4	2963.2
4045.0	15°	4294.2	4524.3	4622.9	4280.5	3699.9	3245.3	2859.2	2585.3	2475.8	2423.7
4127.2	17.5°	4390.1	4710.5	4666.7	4006.7	3291.9	2782.5	2322.4	2084.1	2054.0	2015.7
4258.6	20°	4521.5	4779.0	4510.6	3650.6	2829.0	2185.5	1892.4	1777.4	1804.8	1821.2
4272.3	22.5°	4644.8	4814.6	4313.4	3261.7	2234.7	1730.8	1585.7	1610.3	1651.4	1706.2
4305.2	25°	4699.5	4872.1	4047.7	2725.0	1700.7	1457.0	1424.1	1465.2	1533.7	1536.4
4351.7	27.5°	4735.1	4831.0	3727.3	2201.9	1344.7	1273.5	1322.8	1352.9	1361.1	1394.0
4450.3	30°	4798.1	4746.1	3322.0	1574.7	1128.3	1131.1	1194.1	1194.1	1194.1	1218.7
4548.9	32.5°	4907.7	4688.6	2848.2	1150.2	972.2	1059.9	1043.4	1038.0	1027.0	996.9
4674.9	35°	4976.2	4532.5	2248.4	851.7	873.6	972.2	966.7	881.8	739.4	668.2
4995.3	37.5°	5118.6	4453.1	1654.2	657.3	816.1	928.4	898.3	692.9	536.8	468.3
5392.4	40°	5425.3	4401.0	1144.8	575.1	777.8	906.5	802.4	591.6	410.8	290.3
6005.9	42.5°	5800.5	4403.8	777.8	542.3	780.5	953.1	772.3	506.7	290.3	232.8
6824.7	45°	6304.4	4362.7	534.0	542.3	829.8	1029.7	791.5	460.1	282.1	295.8
7851.7	47.5°	6846.7	4398.3	397.1	493.0	838.0	1032.5	723.0	451.9	271.1	342.3
8969.1	50°	7479.3	4433.9	328.6	454.6	840.8	999.6	665.5	440.9	282.1	361.5
10250.8	52.5°	8131.1	4546.2	279.3	430.0	873.6	985.9	665.5	457.4	282.1	314.9
11883.1	55°	9103.3	4833.7	402.6	536.8	994.1	1076.3	818.9	640.8	394.4	405.3
13446.8	57.5°	10176.9	5129.5	449.1	564.2	1021.5	969.5	881.8	706.6	416.3	419.0
14662.8	60°	10883.4	5140.5	446.4	550.5	955.8	838.0	862.7	744.9	424.5	358.8
15415.9	62.5°	11165.5	4806.4	465.6	550.5	890.1	783.3	884.6	802.4	438.2	449.1
15629.6	65°	10845.1	4116.2	449.1	493.0	783.3	701.1	890.1	813.4	479.3	451.9
15246.1	67°	10343.9	3546.6	457.4	468.3	728.5	665.5	936.6	854.5	555.9	542.3
15046.2	67.5°	10201.5	3395.9	454.6	454.6	709.3	654.5	947.6	854.5	566.9	561.4
13279.8	70°	8991.0	2752.4	465.6	449.1	627.2	621.7	1007.8	901.0	651.8	657.3
9755.1	72.5°	6843.9	2086.9	462.8	449.1	545.0	594.3	1016.0	931.1	709.3	657.3
5463.6	75°	3888.9	1248.8	408.1	391.6	430.0	517.6	950.3	887.3	690.1	588.8
2182.7	77.5°	1607.6	643.6	375.2	353.3	356.0	421.8	791.5	827.1	657.3	501.2
728.5	80°	599.8	386.2	301.3	282.1	273.9	309.5	564.2	660.0	561.4	410.8
320.4	82.5°	312.2	241.0	205.4	205.4	186.2	197.2	304.0	438.2	424.5	282.1
128.7	85°	158.8	136.9	117.8	115.0	104.1	93.1	153.4	260.2	243.7	156.1
57.5	87.5°	84.9	76.7	49.3	46.6	38.3	24.6	27.4	52.0	84.9	68.5
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>
3634.2
4014.9
4149.1
3880.7
3409.6
2946.8
2412.8
2034.8
1802.0
1676.1
1563.8
1424.1
1246.1
980.4
701.1
465.6
282.1
227.3
301.3
380.7
419.0
323.2
427.2
405.3
369.7
454.6
443.7
534.0
550.5
608.0
583.3
525.8
473.8
375.2
221.8
128.7
49.3
0.0

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