

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: P477945

Luminaire Tested: **IFLD-M-SA4D-830-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477945
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-830-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

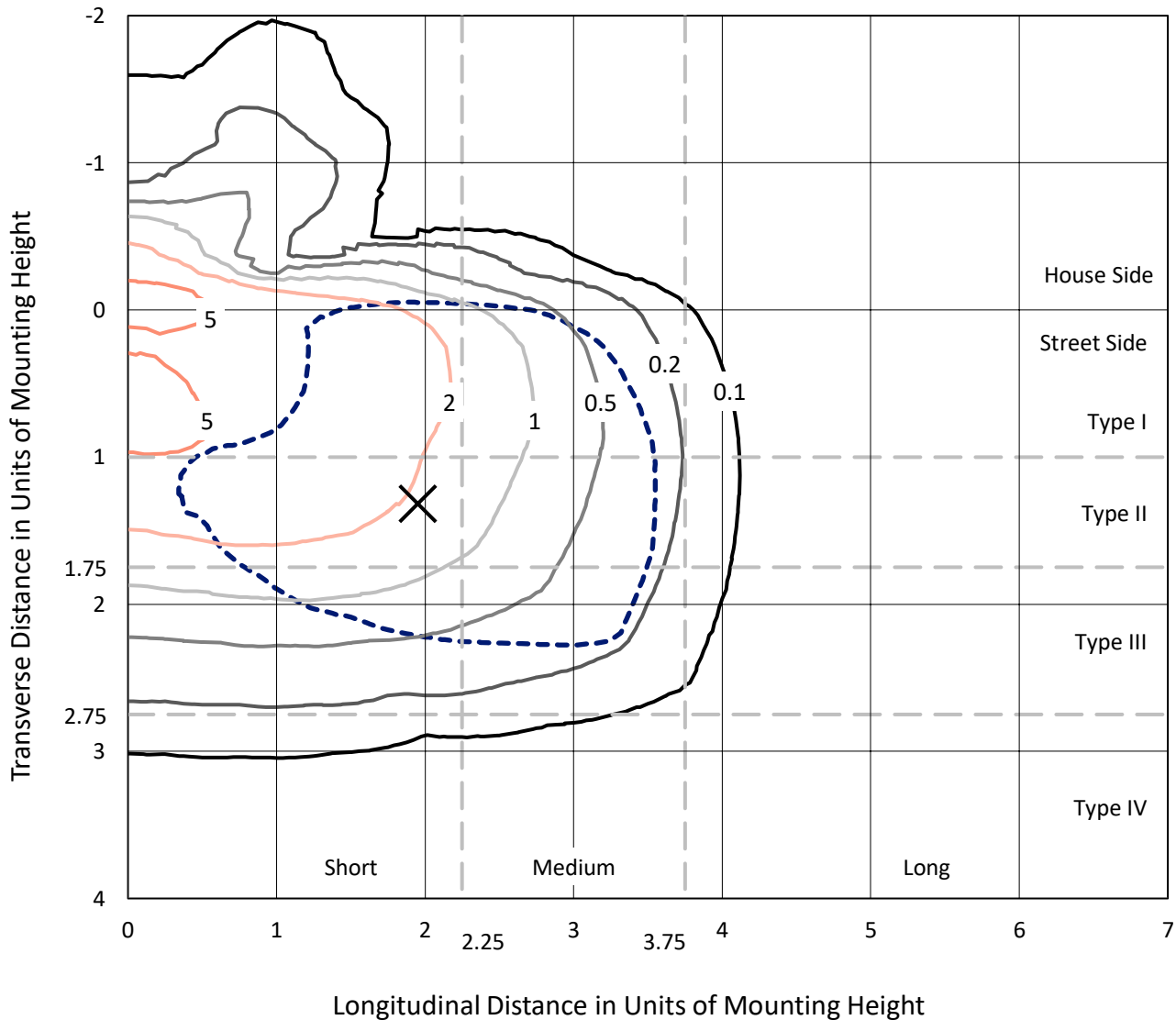
Lumens per Lamp: N/A
Luminaire Lumens: 24418.1 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 249.7
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

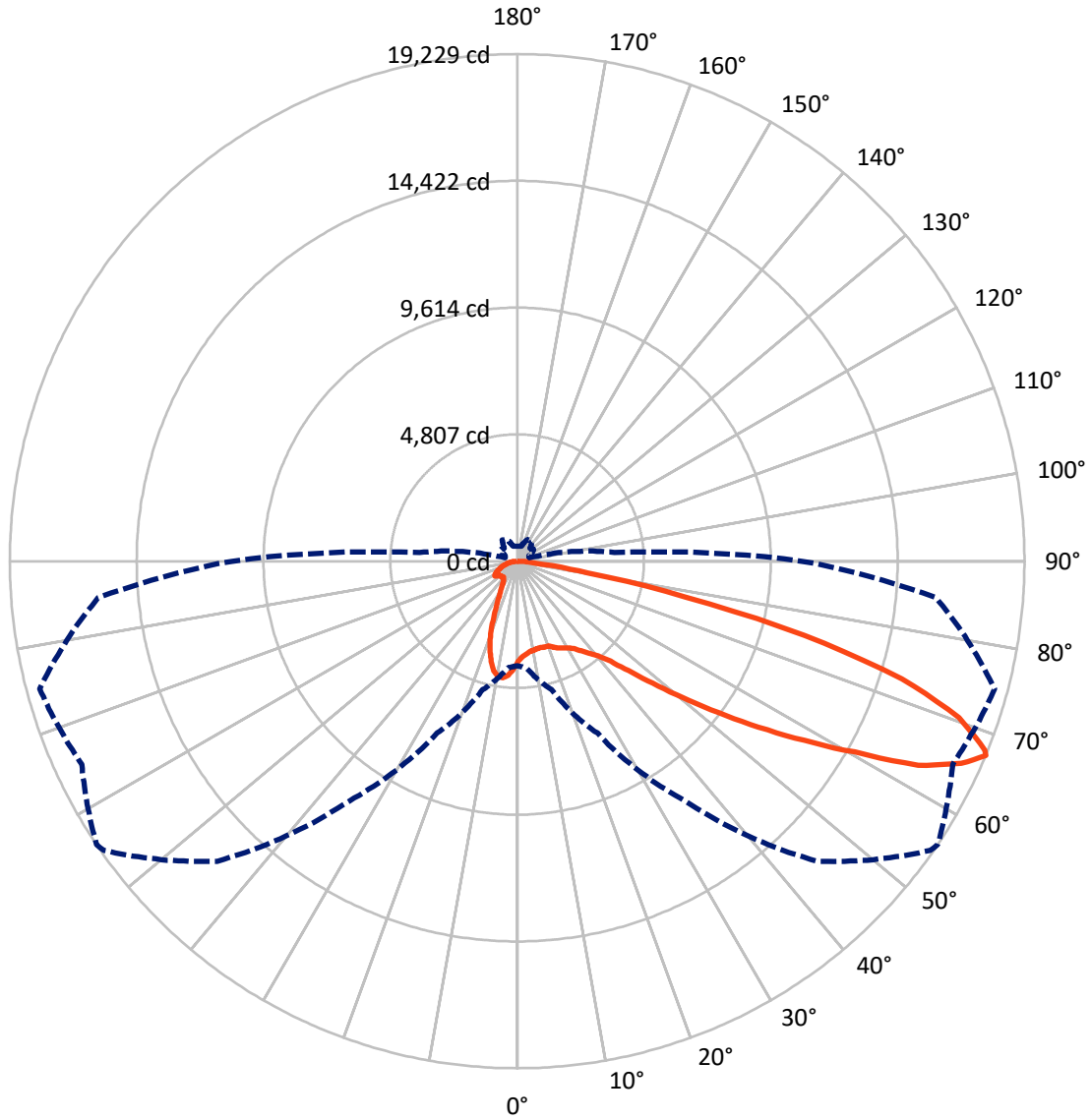
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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	3865.6	0.0	3865.6
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	20552.5	0.0	20552.5
	% Fixture	84.2	0.0	84.2
Total	Lumens	24418.1	0.0	24418.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.0	1.5
10°-20°	998.6	4.1
20°-30°	1566.0	6.4
30°-40°	2235.5	9.2
40°-50°	3374.1	13.8
50°-60°	5370.9	22.0
60°-70°	6866.3	28.1
70°-80°	3347.8	13.7
80°-90°	292.9	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°	24418.1	100.0
0°-180°	24418.1	100.0

Coefficient of Utilization

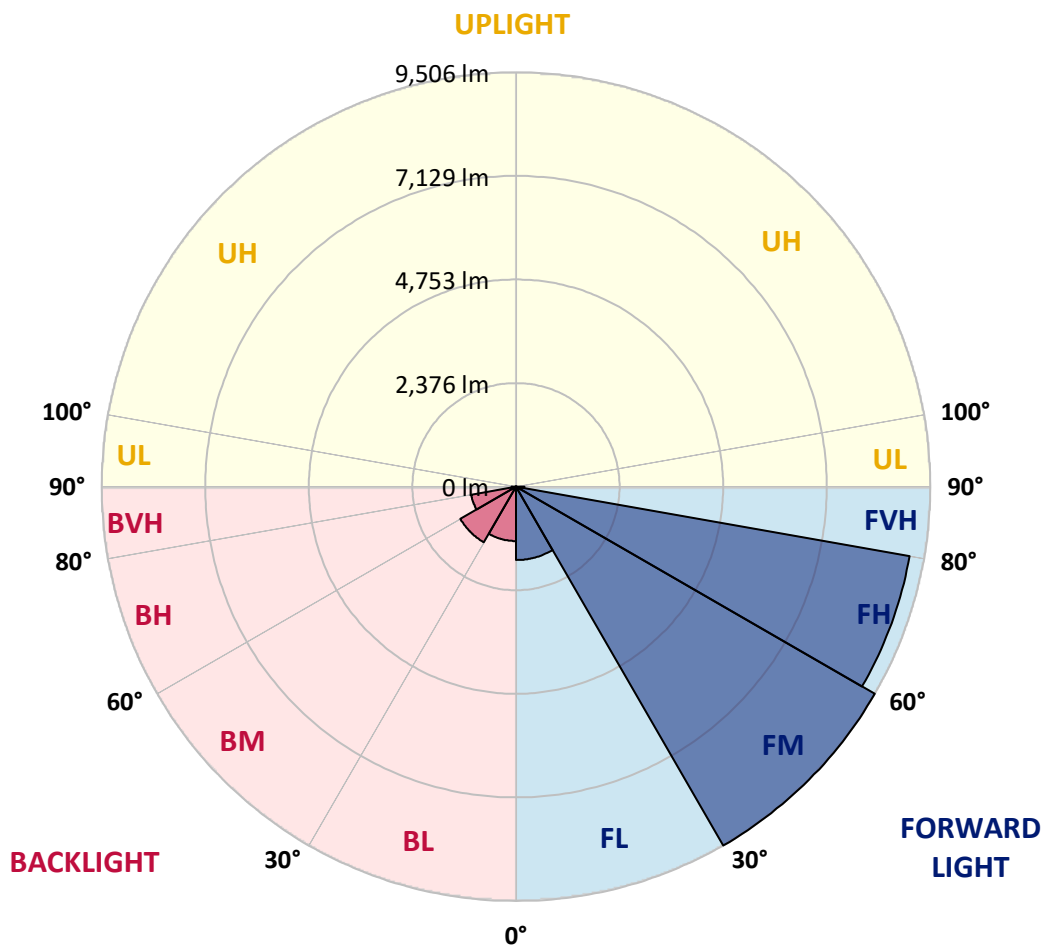


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1682.7	6.9			
FM (30°-60°)	9505.8	38.9			
FH (60°-80°)	9169.6	37.6			G4/12000
FVH (80°-90°)	194.5	0.8			G2/225
BL (0°-30°)	1247.9	5.1	B3/2500		
BM (30°-60°)	1474.8	6.0	B2/2500		
BH (60°-80°)	1044.6	4.3	B3/2500		G3/2500
BVH (80°-90°)	98.4	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°	3799.4	3799.4	3799.4	3799.4	3799.4	3799.4	3799.4	3799.4	3799.4	3799.4
2.5°	3490.2	3475.9	3493.0	3475.9	3553.2	3599.0	3613.3	3633.3	3704.9	3773.6
5°	3344.2	3281.2	3349.9	3372.8	3378.5	3455.8	3536.0	3550.3	3587.5	3699.2
7.5°	3100.8	3172.4	3146.6	3215.3	3286.9	3364.2	3495.9	3458.7	3596.1	3702.1
10°	3049.3	3055.0	3083.6	3109.4	3172.4	3272.6	3455.8	3432.9	3573.2	3799.4
12.5°	3100.8	3100.8	3092.2	3072.2	3143.7	3241.1	3387.1	3398.6	3619.0	3828.0
15°	3281.2	3315.5	3223.9	3238.2	3209.6	3241.1	3369.9	3395.7	3636.2	3850.9
17.5°	3722.1	3710.6	3601.8	3450.1	3324.1	3304.1	3392.8	3421.5	3619.0	3916.8
20°	4151.6	4128.7	3939.7	3782.2	3533.1	3415.7	3430.1	3432.9	3647.7	3959.7
22.5°	4629.7	4689.8	4483.7	4163.0	3853.8	3561.8	3504.5	3550.3	3713.5	3982.6
25°	5379.9	5251.0	5073.5	4652.6	4154.4	3787.9	3627.6	3650.5	3776.5	4039.9
27.5°	5921.0	5869.5	5591.7	5251.0	4575.3	3965.5	3693.5	3736.4	3891.0	4037.0
30°	6442.1	6442.1	6273.2	5763.5	5019.1	4263.2	3833.8	3813.7	3836.6	4031.3
32.5°	7051.9	6968.9	6725.5	6387.7	5577.4	4535.2	3945.4	3951.1	3951.1	4137.2
35°	7372.6	7507.2	7344.0	6794.3	6004.0	4987.6	4214.6	4171.6	4140.1	4254.6
37.5°	7842.2	7922.3	7750.5	7427.0	6533.7	5354.1	4452.2	4417.8	4234.6	4346.3
40°	8125.6	8111.3	8105.6	7956.7	7235.2	5786.4	4801.5	4712.7	4466.5	4669.8
42.5°	8286.0	8257.3	8609.5	8517.9	7896.6	6422.0	5239.6	5190.9	4918.9	5245.3
45°	8466.3	8678.2	8967.4	9225.1	8666.8	7315.3	5981.1	5912.4	5669.0	6084.2
47.5°	8623.8	8884.3	9253.7	9528.6	9362.5	8286.0	6897.3	6914.5	6754.2	7180.8
50°	8887.2	8913.0	9414.0	9969.5	10098.3	9182.1	8128.5	8099.8	8028.3	8626.7
52.5°	8807.0	8884.3	9517.1	10227.2	10439.0	10129.8	9451.3	9537.1	9442.7	10195.7
55°	7501.4	7733.4	9454.1	10499.2	11246.4	11200.6	11152.0	11094.7	11089.0	11959.4
57.5°	6908.8	7097.7	8328.9	10799.8	12111.1	12449.0	12763.9	12826.9	12824.0	13874.8
60°	6519.4	6714.1	7873.7	10636.6	12846.9	14083.8	14688.0	14696.5	14679.4	15922.0
62.5°	5757.8	5946.8	7086.3	9743.3	13050.2	15592.7	16938.4	17050.0	16262.7	17685.7
65°	4841.6	4996.2	6001.2	8377.6	12509.1	16551.9	18630.5	18498.8	17596.9	18693.5
67°	3959.7	4062.8	5042.0	7192.2	11094.7	16090.9	19120.1	19228.9	18212.5	18736.4
67.5°	3707.8	3802.3	4727.1	6788.5	10556.4	15741.6	19137.3	19120.1	18223.9	18745.0
70°	2574.0	2614.1	3221.0	4669.8	7776.3	13299.3	17740.1	17780.2	17459.5	17728.6
72.5°	1706.4	1766.6	2153.1	2943.3	4583.9	9677.4	14828.2	15257.7	15054.4	14536.2
75°	1099.4	1133.8	1408.7	1752.2	2256.2	5511.6	10954.4	11240.7	10774.0	8990.3
77.5°	615.6	652.8	850.4	1065.1	1099.4	2293.4	6152.9	6507.9	5514.4	3819.4
80°	383.7	432.3	641.3	632.8	524.0	841.8	2536.7	2717.1	2204.6	1314.2
82.5°	289.2	326.4	495.3	443.8	294.9	375.1	950.6	1019.3	807.4	506.8
85°	197.6	249.1	357.9	274.9	154.6	180.4	377.9	406.6	369.3	246.2
87.5°	71.6	105.9	186.1	137.4	68.7	54.4	123.1	137.4	131.7	111.7
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°
3799.4	0°	3799.4	3799.4	3799.4	3799.4	3799.4	3799.4	3799.4	3799.4	3799.4	3799.4
3833.8	2.5°	3888.2	3928.2	3948.3	4065.7	4114.3	4105.8	4117.2	4134.4	4151.6	4174.5
3882.4	5°	3919.7	4042.8	4108.6	4246.0	4337.7	4297.6	4349.1	4334.8	4314.8	4311.9
3971.2	7.5°	4022.7	4180.2	4377.8	4415.0	4455.1	4354.8	4269.0	4151.6	4122.9	4022.7
4045.6	10°	4206.0	4334.8	4575.3	4589.6	4412.1	4154.4	3962.6	3719.2	3716.4	3570.3
4160.2	12.5°	4380.6	4526.6	4721.3	4638.3	4214.6	3862.4	3550.3	3284.0	3172.4	3097.9
4228.9	15°	4489.4	4729.9	4833.0	4475.1	3868.1	3392.8	2989.1	2702.8	2588.3	2533.9
4314.8	17.5°	4589.6	4924.6	4878.8	4188.8	3441.5	2909.0	2427.9	2178.9	2147.4	2107.3
4452.2	20°	4727.1	4996.2	4715.6	3816.6	2957.6	2284.8	1978.4	1858.2	1886.8	1904.0
4466.5	22.5°	4855.9	5033.4	4509.5	3410.0	2336.3	1809.5	1657.8	1683.5	1726.5	1783.7
4500.9	25°	4913.2	5093.5	4231.7	2848.8	1778.0	1523.2	1488.8	1531.8	1603.4	1606.2
4549.5	27.5°	4950.4	5050.6	3896.7	2302.0	1405.8	1331.4	1382.9	1414.4	1423.0	1457.3
4652.6	30°	5016.2	4961.8	3473.0	1646.3	1179.6	1182.5	1248.3	1248.3	1248.3	1274.1
4755.7	32.5°	5130.8	4901.7	2977.7	1202.5	1016.4	1108.0	1090.9	1085.1	1073.7	1042.2
4887.4	35°	5202.3	4738.5	2350.6	890.4	913.3	1016.4	1010.7	921.9	773.1	698.6
5222.4	37.5°	5351.2	4655.5	1729.3	687.2	853.2	970.6	939.1	724.4	561.2	489.6
5637.5	40°	5671.9	4601.1	1196.8	601.3	813.1	947.7	838.9	618.4	429.5	303.5
6278.9	42.5°	6064.1	4603.9	813.1	566.9	816.0	996.4	807.4	529.7	303.5	243.4
7135.0	45°	6591.0	4561.0	558.3	566.9	867.5	1076.5	827.4	481.0	294.9	309.2
8208.6	47.5°	7157.9	4598.2	415.2	515.4	876.1	1079.4	755.9	472.4	283.5	357.9
9376.8	50°	7819.3	4635.4	343.6	475.3	879.0	1045.0	695.7	461.0	294.9	377.9
10716.8	52.5°	8500.7	4752.8	292.0	449.5	913.3	1030.7	695.7	478.1	294.9	329.3
12423.2	55°	9517.1	5053.5	420.9	561.2	1039.3	1125.2	856.1	670.0	412.3	423.7
14058.1	57.5°	10639.5	5362.7	469.6	589.8	1068.0	1013.6	921.9	738.7	435.2	438.1
15329.3	60°	11378.2	5374.1	466.7	575.5	999.2	876.1	901.9	778.8	443.8	375.1
16116.7	62.5°	11673.1	5024.8	486.7	575.5	930.5	818.9	924.8	838.9	458.1	469.6
16340.0	65°	11338.1	4303.3	469.6	515.4	818.9	733.0	930.5	850.4	501.1	472.4
15939.1	67°	10814.1	3707.8	478.1	489.6	761.6	695.7	979.2	893.3	581.2	566.9
15730.1	67.5°	10665.2	3550.3	475.3	475.3	741.6	684.3	990.6	893.3	592.7	586.9
13883.4	70°	9399.7	2877.5	486.7	469.6	655.7	649.9	1053.6	942.0	681.4	687.2
10198.5	72.5°	7155.0	2181.7	483.9	469.6	569.8	621.3	1062.2	973.5	741.6	687.2
5712.0	75°	4065.7	1305.6	426.6	409.4	449.5	541.1	993.5	927.7	721.5	615.6
2281.9	77.5°	1680.7	672.8	392.3	369.3	372.2	440.9	827.4	864.7	687.2	524.0
761.6	80°	627.0	403.7	314.9	294.9	286.3	323.5	589.8	690.0	586.9	429.5
335.0	82.5°	326.4	252.0	214.7	214.7	194.7	206.1	317.8	458.1	443.8	294.9
134.6	85°	166.1	143.2	123.1	120.3	108.8	97.3	160.3	272.0	254.8	163.2
60.1	87.5°	88.8	80.2	51.5	48.7	40.1	25.8	28.6	54.4	88.8	71.6
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>
3799.4
4197.4
4337.7
4057.1
3564.6
3080.7
2522.4
2127.3
1884.0
1752.2
1634.9
1488.8
1302.7
1025.0
733.0
486.7
294.9
237.6
314.9
398.0
438.1
337.9
446.7
423.7
386.5
475.3
463.8
558.3
575.5
635.6
609.9
549.7
495.3
392.3
231.9
134.6
51.5
0.0

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