

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: P477636

Luminaire Tested: **IFLD-L-SA7B-722-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477636
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-722-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens
Light Source: (112) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

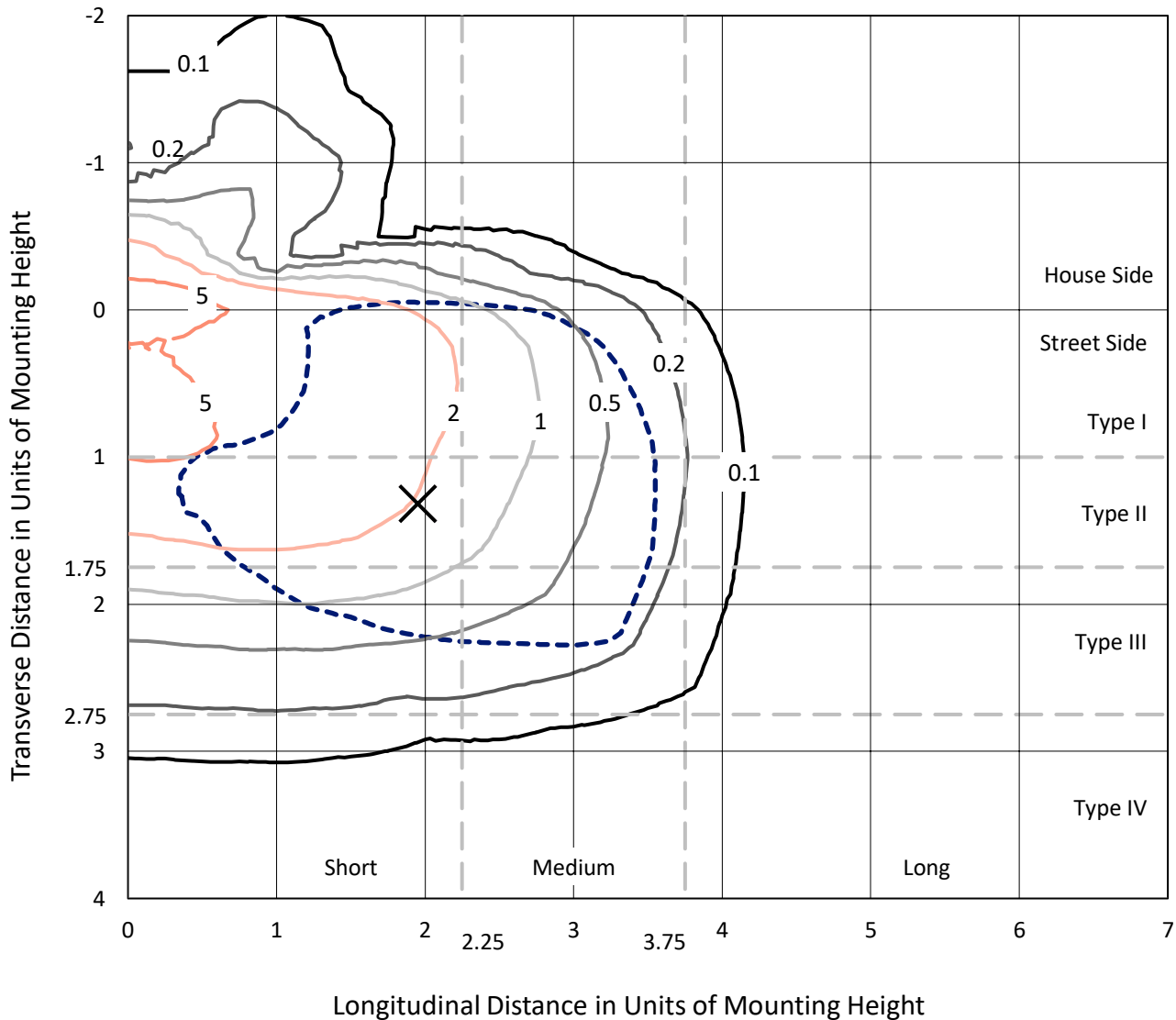
Lumens per Lamp: N/A
Luminaire Lumens: 25767.5 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 281
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

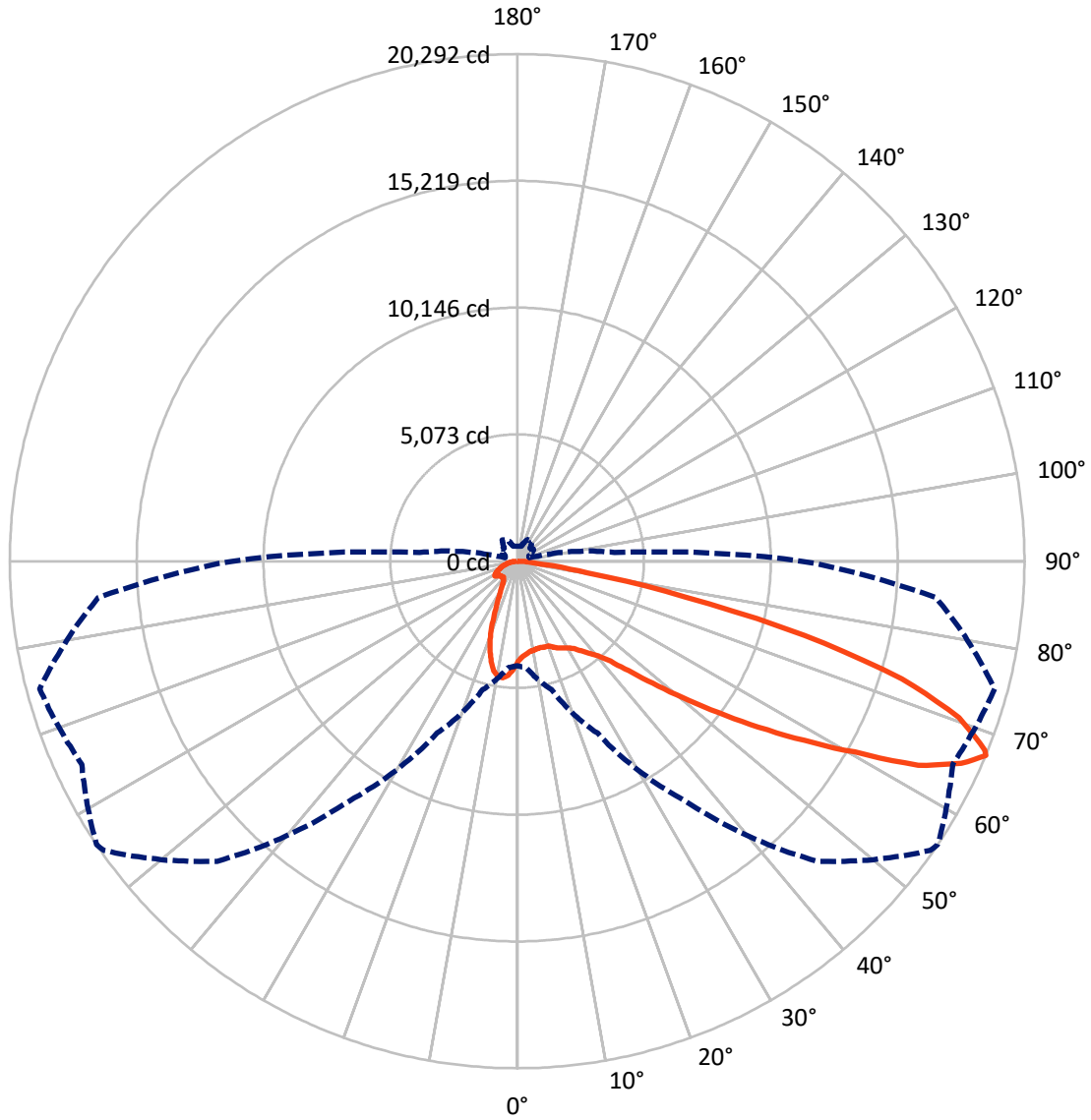
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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	4079.3	0.0	4079.3
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	21688.2	0.0	21688.2
	% Fixture	84.2	0.0	84.2
Total	Lumens	25767.5	0.0	25767.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	386.3	1.5
10°-20°	1053.7	4.1
20°-30°	1652.6	6.4
30°-40°	2359.1	9.2
40°-50°	3560.5	13.8
50°-60°	5667.7	22.0
60°-70°	7245.8	28.1
70°-80°	3532.8	13.7
80°-90°	309.0	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°	25767.5	100.0
0°-180°	25767.5	100.0

Coefficient of Utilization

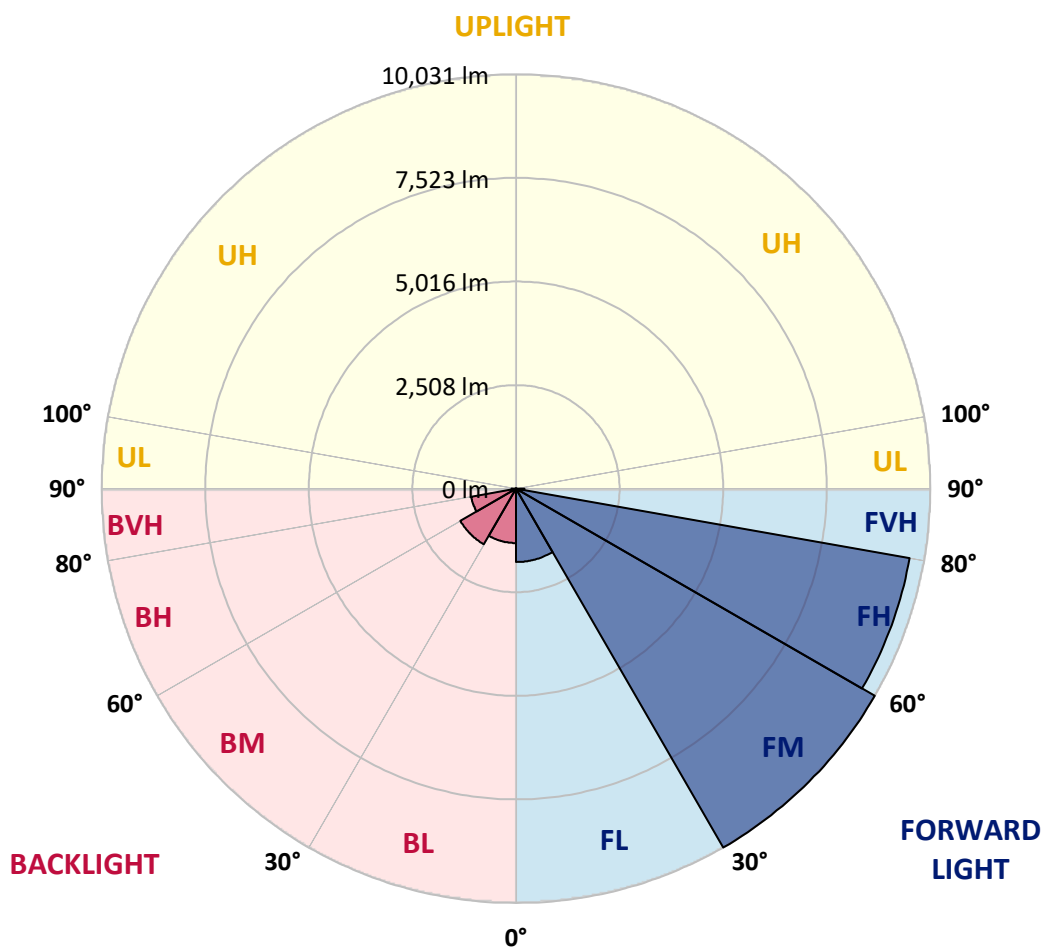


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1775.7	6.9			
FM (30°-60°)	10031.0	38.9			
FH (60°-80°)	9676.3	37.6			G4/12000
FVH (80°-90°)	205.2	0.8			G2/225
BL (0°-30°)	1316.9	5.1	B3/2500		
BM (30°-60°)	1556.3	6.0	B2/2500		
BH (60°-80°)	1102.3	4.3	B3/2500		G3/2500
BVH (80°-90°)	103.8	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	4009.4	4009.4	4009.4	4009.4	4009.4	4009.4	4009.4	4009.4	4009.4	4009.4
2.5°	3683.0	3667.9	3686.1	3667.9	3749.5	3797.9	3813.0	3834.1	3909.6	3982.2
5°	3529.0	3462.5	3535.0	3559.2	3565.2	3646.8	3731.4	3746.5	3785.8	3903.6
7.5°	3272.1	3347.7	3320.5	3393.0	3468.5	3550.1	3689.1	3649.8	3794.8	3906.6
10°	3217.8	3223.8	3254.0	3281.2	3347.7	3453.4	3646.8	3622.6	3770.7	4009.4
12.5°	3272.1	3272.1	3263.1	3241.9	3317.5	3420.2	3574.3	3586.4	3819.0	4039.6
15°	3462.5	3498.7	3402.1	3417.2	3386.9	3420.2	3556.1	3583.3	3837.1	4063.7
17.5°	3927.8	3915.7	3800.9	3640.7	3507.8	3486.7	3580.3	3610.5	3819.0	4133.2
20°	4381.0	4356.8	4157.4	3991.2	3728.4	3604.5	3619.6	3622.6	3849.2	4178.5
22.5°	4885.5	4949.0	4731.5	4393.1	4066.8	3758.6	3698.1	3746.5	3918.7	4202.7
25°	5677.1	5541.2	5353.9	4909.7	4384.0	3997.3	3828.1	3852.2	3985.2	4263.1
27.5°	6248.2	6193.8	5900.7	5541.2	4828.1	4184.6	3897.6	3942.9	4106.0	4260.1
30°	6798.1	6798.1	6619.8	6082.0	5296.5	4498.8	4045.6	4024.5	4048.6	4254.1
32.5°	7441.6	7354.0	7097.2	6740.7	5885.6	4785.8	4163.4	4169.5	4169.5	4365.9
35°	7780.0	7922.0	7749.8	7169.7	6335.8	5263.2	4447.4	4402.1	4368.9	4489.7
37.5°	8275.5	8360.1	8178.8	7837.4	6894.8	5650.0	4698.2	4662.0	4468.6	4586.4
40°	8574.6	8559.5	8553.5	8396.4	7635.0	6106.2	5066.8	4973.2	4713.3	4927.8
42.5°	8743.8	8713.6	9085.2	8988.6	8332.9	6776.9	5529.1	5477.7	5190.7	5535.1
45°	8934.2	9157.8	9462.9	9734.8	9145.7	7719.6	6311.6	6239.1	5982.3	6420.4
47.5°	9100.3	9375.3	9765.0	10055.1	9879.9	8743.8	7278.5	7296.6	7127.4	7577.6
50°	9378.3	9405.5	9934.2	10520.4	10656.4	9689.5	8577.7	8547.4	8471.9	9103.4
52.5°	9293.7	9375.3	10043.0	10792.3	11015.9	10689.6	9973.5	10064.2	9964.5	10759.1
55°	7916.0	8160.7	9976.5	11079.3	11867.9	11819.6	11768.2	11707.8	11701.7	12620.2
57.5°	7290.6	7490.0	8789.1	11396.6	12780.4	13136.9	13469.2	13535.7	13532.7	14641.5
60°	6879.6	7085.1	8308.8	11224.4	13556.9	14862.1	15499.6	15508.7	15490.5	16801.8
62.5°	6076.0	6275.4	7477.9	10281.7	13771.4	16454.3	17874.4	17992.2	17161.3	18663.0
65°	5109.1	5272.3	6332.8	8840.5	13200.3	17466.5	19660.0	19521.0	18569.3	19726.5
67°	4178.5	4287.3	5320.6	7589.7	11707.8	16980.1	20176.7	20291.5	19218.9	19771.8
67.5°	3912.7	4012.4	4988.3	7163.7	11139.8	16611.5	20194.8	20176.7	19231.0	19780.9
70°	2716.2	2758.5	3399.0	4927.8	8206.0	14034.2	18720.4	18762.7	18424.3	18708.3
72.5°	1800.7	1864.2	2272.1	3106.0	4837.2	10212.2	15647.6	16100.9	15886.3	15339.5
75°	1160.2	1196.5	1486.5	1849.1	2380.8	5816.1	11559.7	11861.9	11369.4	9487.1
77.5°	649.6	688.9	897.3	1123.9	1160.2	2420.1	6492.9	6867.6	5819.1	4030.5
80°	404.9	456.2	676.8	667.7	552.9	888.3	2676.9	2867.3	2326.5	1386.8
82.5°	305.2	344.4	522.7	468.3	311.2	395.8	1003.1	1075.6	852.0	534.8
85°	208.5	262.9	377.7	290.1	163.2	190.3	398.8	429.0	389.8	259.8
87.5°	75.5	111.8	196.4	145.0	72.5	57.4	129.9	145.0	139.0	117.8
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°
4009.4	0°	4009.4	4009.4	4009.4	4009.4	4009.4	4009.4	4009.4	4009.4	4009.4	4009.4
4045.6	2.5°	4103.0	4145.3	4166.5	4290.3	4341.7	4332.6	4344.7	4362.9	4381.0	4405.1
4097.0	5°	4136.2	4266.2	4335.7	4480.7	4577.4	4535.1	4589.5	4574.3	4553.2	4550.2
4190.6	7.5°	4245.0	4411.2	4619.7	4658.9	4701.2	4595.5	4504.9	4381.0	4350.8	4245.0
4269.2	10°	4438.4	4574.3	4828.1	4843.2	4655.9	4384.0	4181.6	3924.8	3921.7	3767.6
4390.0	12.5°	4622.7	4776.8	4982.2	4894.6	4447.4	4075.8	3746.5	3465.5	3347.7	3269.1
4462.6	15°	4737.5	4991.3	5100.1	4722.4	4081.9	3580.3	3154.3	2852.2	2731.3	2673.9
4553.2	17.5°	4843.2	5196.7	5148.4	4420.3	3631.7	3069.7	2562.1	2299.3	2266.0	2223.7
4698.2	20°	4988.3	5272.3	4976.2	4027.5	3121.1	2411.0	2087.8	1960.9	1991.1	2009.2
4713.3	22.5°	5124.2	5311.6	4758.6	3598.4	2465.4	1909.5	1749.4	1776.6	1821.9	1882.3
4749.6	25°	5184.7	5375.0	4465.6	3006.3	1876.3	1607.4	1571.1	1616.4	1692.0	1695.0
4800.9	27.5°	5223.9	5329.7	4112.1	2429.2	1483.5	1404.9	1459.3	1492.6	1501.6	1537.9
4909.7	30°	5293.4	5236.0	3664.9	1737.3	1244.8	1247.8	1317.3	1317.3	1317.3	1344.5
5018.5	32.5°	5414.3	5172.6	3142.2	1269.0	1072.6	1169.3	1151.1	1145.1	1133.0	1099.8
5157.5	35°	5489.8	5000.4	2480.5	939.6	963.8	1072.6	1066.5	972.9	815.8	737.2
5511.0	37.5°	5646.9	4912.7	1824.9	725.1	900.4	1024.2	991.0	764.4	592.2	516.7
5949.1	40°	5985.3	4855.3	1262.9	634.5	858.1	1000.1	885.3	652.6	453.2	320.3
6625.9	42.5°	6399.2	4858.4	858.1	598.2	861.1	1051.4	852.0	559.0	320.3	256.8
7529.2	45°	6955.2	4813.0	589.2	598.2	915.5	1136.0	873.2	507.6	311.2	326.3
8662.3	47.5°	7553.4	4852.3	438.1	543.8	924.5	1139.1	797.6	498.5	299.1	377.7
9895.0	50°	8251.3	4891.6	362.6	501.5	927.6	1102.8	734.2	486.4	311.2	398.8
11309.0	52.5°	8970.4	5015.5	308.2	474.4	963.8	1087.7	734.2	504.6	311.2	347.5
13109.7	55°	10043.0	5332.7	444.1	592.2	1096.8	1187.4	903.4	707.0	435.1	447.2
14834.9	57.5°	11227.4	5659.0	495.5	622.4	1127.0	1069.6	972.9	779.5	459.2	462.3
16176.4	60°	12006.9	5671.1	492.5	607.3	1054.5	924.5	951.7	821.8	468.3	395.8
17007.3	62.5°	12318.1	5302.5	513.6	607.3	981.9	864.1	975.9	885.3	483.4	495.5
17242.9	65°	11964.6	4541.1	495.5	543.8	864.1	773.5	981.9	897.3	528.7	498.5
16819.9	67°	11411.7	3912.7	504.6	516.7	803.7	734.2	1033.3	942.7	613.3	598.2
16599.4	67.5°	11254.6	3746.5	501.5	501.5	782.5	722.1	1045.4	942.7	625.4	619.4
14650.6	70°	9919.1	3036.5	513.6	495.5	691.9	685.8	1111.9	994.0	719.1	725.1
10762.1	72.5°	7550.4	2302.3	510.6	495.5	601.3	655.6	1120.9	1027.3	782.5	725.1
6027.6	75°	4290.3	1377.7	450.2	432.1	474.4	571.0	1048.4	978.9	761.4	649.6
2408.0	77.5°	1773.5	710.0	413.9	389.8	392.8	465.3	873.2	912.5	725.1	552.9
803.7	80°	661.7	426.0	332.4	311.2	302.1	341.4	622.4	728.1	619.4	453.2
353.5	82.5°	344.4	265.9	226.6	226.6	205.5	217.5	335.4	483.4	468.3	311.2
142.0	85°	175.2	151.1	129.9	126.9	114.8	102.7	169.2	287.0	268.9	172.2
63.4	87.5°	93.7	84.6	54.4	51.4	42.3	27.2	30.2	57.4	93.7	75.5
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>
4009.4
4429.3
4577.4
4281.3
3761.6
3251.0
2661.8
2244.9
1988.1
1849.1
1725.2
1571.1
1374.7
1081.6
773.5
513.6
311.2
250.8
332.4
420.0
462.3
356.5
471.3
447.2
407.9
501.5
489.5
589.2
607.3
670.7
643.6
580.1
522.7
413.9
244.7
142.0
54.4
0.0

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