

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: P477391

Luminaire Tested: **IFLD-S-SA6A-740-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477391
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-740-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

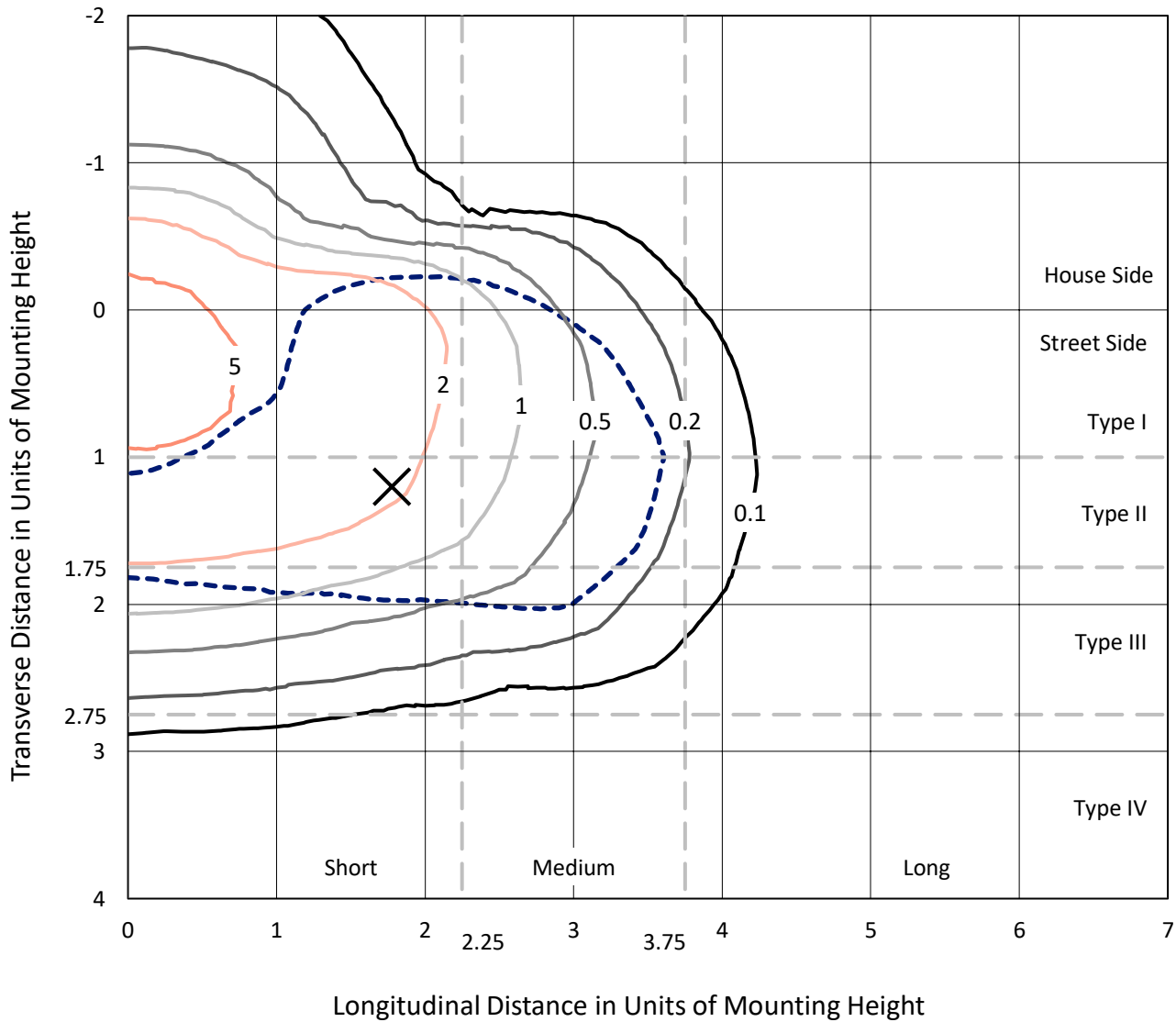
Lumens per Lamp: N/A
Luminaire Lumens: 27489.8 lumens
Efficiency: N/A
Efficacy: 145.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 189.6
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

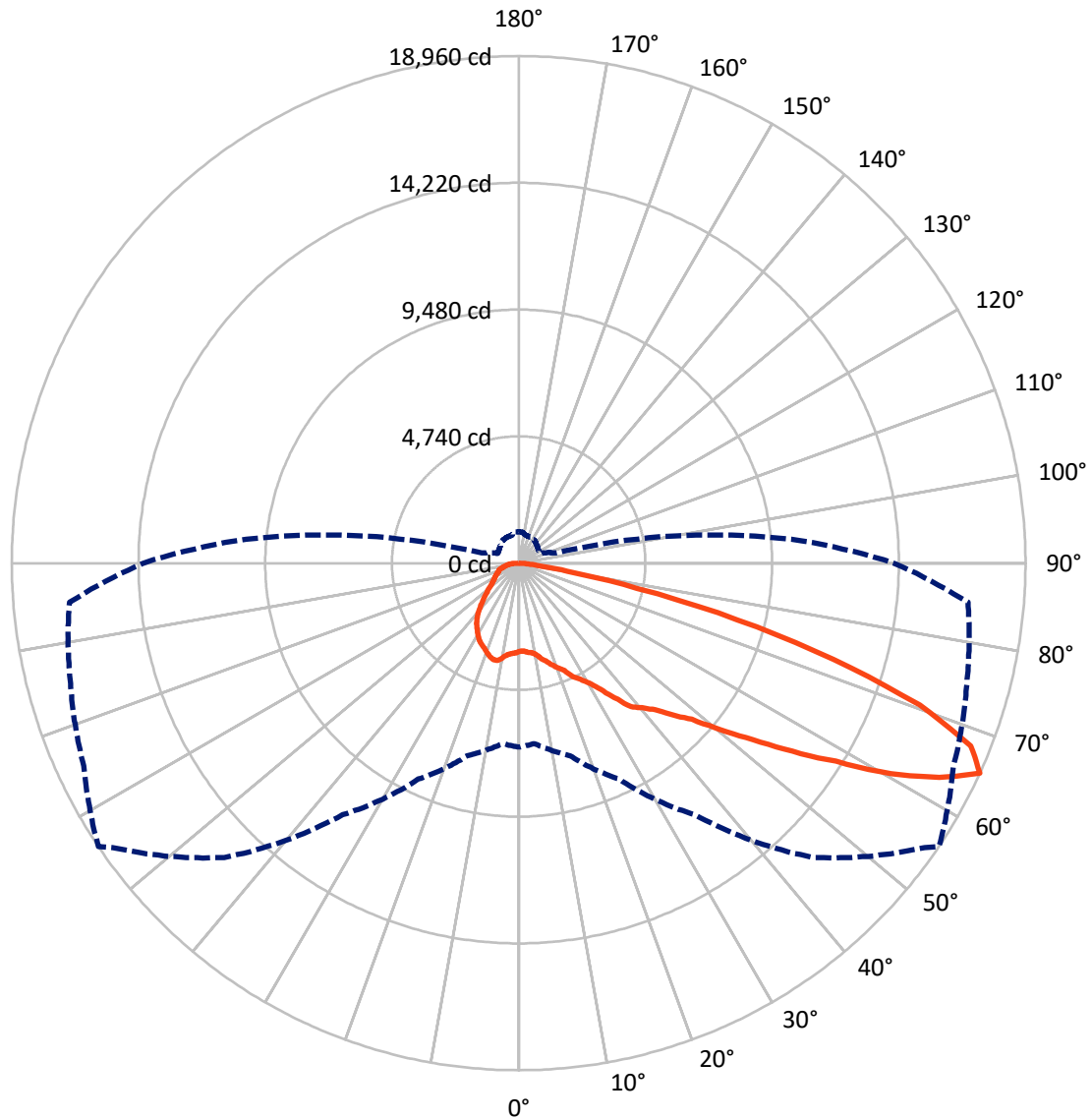
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6165.1	0.0	6165.1
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	21324.7	0.0	21324.7
	% Fixture	77.6	0.0	77.6
Total	Lumens	27489.8	0.0	27489.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	327.0	1.2
10°-20°	1061.7	3.9
20°-30°	1890.5	6.9
30°-40°	2830.9	10.3
40°-50°	4194.4	15.3
50°-60°	6463.0	23.5
60°-70°	7316.9	26.6
70°-80°	3036.6	11.0
80°-90°	368.9	1.3
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°	27489.8	100.0
0°-180°	27489.8	100.0

Coefficient of Utilization

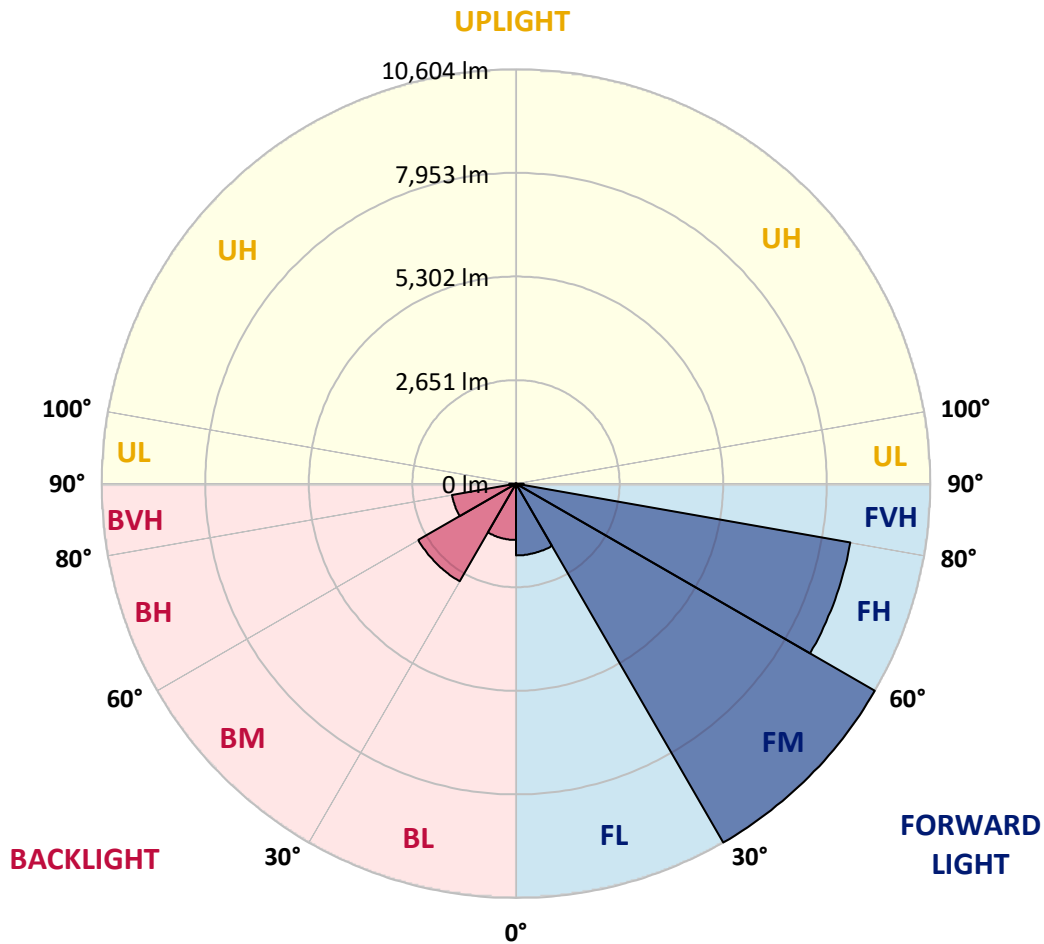


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1837.1	6.7			
FM (30°-60°)	10604.4	38.6			
FH (60°-80°)	8688.7	31.6			G4/12000
FVH (80°-90°)	194.6	0.7			G2/225
BL (0°-30°)	1442.1	5.2	B3/2500		
BM (30°-60°)	2883.9	10.5	B3/5000		
BH (60°-80°)	1664.8	6.1	B3/2500		G3/2500
BVH (80°-90°)	174.3	0.6			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°	3299.6	3299.6	3299.6	3299.6	3299.6	3299.6	3299.6	3299.6	3299.6	3299.6
2.5°	3213.3	3230.5	3219.0	3253.5	3282.3	3282.3	3305.3	3288.1	3311.1	3342.7
5°	3319.7	3250.7	3288.1	3305.3	3296.7	3311.1	3288.1	3345.6	3308.2	3368.6
7.5°	3345.6	3371.5	3403.1	3374.4	3400.2	3385.9	3388.7	3380.1	3360.0	3408.9
10°	3535.4	3498.1	3570.0	3526.8	3521.1	3515.3	3503.8	3460.7	3509.6	3512.4
12.5°	3754.1	3719.6	3716.7	3682.2	3728.2	3644.8	3662.0	3639.0	3647.6	3659.1
15°	3912.3	3897.9	3964.1	3923.8	3863.4	3826.0	3866.3	3803.0	3834.6	3828.9
17.5°	4225.9	4223.0	4174.1	4107.9	4073.4	4018.7	4010.1	3984.2	4007.2	3995.7
20°	4444.5	4476.1	4484.8	4407.1	4274.8	4214.3	4200.0	4179.8	4205.7	4197.1
22.5°	4778.2	4729.3	4766.7	4631.5	4582.6	4438.7	4386.9	4358.2	4481.9	4450.2
25°	4991.1	5042.8	5005.4	4959.4	4850.1	4671.7	4634.3	4697.6	4746.5	4712.0
27.5°	5471.5	5419.7	5385.2	5247.1	5175.2	4988.2	4945.0	4922.0	4933.5	4953.7
30°	5836.8	5865.6	5787.9	5690.1	5508.9	5319.0	5218.3	5198.2	5157.9	5123.4
32.5°	6357.5	6314.3	6268.3	6205.0	6049.7	5799.4	5701.6	5626.8	5506.0	5344.9
35°	6607.8	6731.4	6696.9	6527.2	6409.3	6314.3	6285.6	6170.5	6069.8	5816.7
37.5°	7024.9	7076.7	7027.7	6973.1	6918.4	6817.8	6783.2	6814.9	6616.4	6199.3
40°	7295.3	7404.6	7505.3	7352.8	7341.3	7361.4	7148.6	7111.2	6702.7	6484.1
42.5°	7847.6	7893.6	7913.8	7908.0	7974.2	7974.2	7568.6	7488.0	7197.5	7019.1
45°	8578.3	8615.7	8687.6	8739.4	8664.6	8702.0	8123.8	8092.1	7833.2	7798.7
47.5°	9211.2	9300.3	9461.4	9613.9	9711.7	9585.1	8952.3	8727.9	8661.7	8868.8
50°	9763.5	9657.0	10033.9	10189.2	10617.9	10827.9	9867.0	9777.9	9671.4	10068.4
52.5°	9818.1	9962.0	10494.2	10804.8	11688.0	12076.3	10988.9	10951.6	10822.1	11279.5
55°	10209.4	10192.1	10727.2	11400.3	12450.3	13103.3	12450.3	12427.3	12145.4	12579.8
57.5°	10143.2	10318.7	10741.6	11682.2	13137.8	14205.1	14144.7	13986.5	13592.4	13946.2
60°	9918.8	9964.8	10479.8	11673.6	13537.7	15335.6	15974.2	16005.9	15200.4	15482.3
62.5°	8647.3	8753.8	9406.8	10755.9	13252.9	16115.2	17760.7	17648.5	17004.1	16681.9
65°	6878.2	6771.7	7450.6	8909.1	11480.9	15562.9	18543.1	18960.3	17947.7	17357.9
67.5°	4217.2	4191.3	4844.3	6130.2	8589.8	13244.3	17918.9	18244.0	17685.9	17214.1
70°	2171.9	2105.7	2514.2	3420.4	5399.5	9717.5	15594.5	15913.8	16446.0	15439.2
72.5°	1012.6	998.2	1216.8	1682.9	2750.1	5713.1	12076.3	12306.5	13428.4	13017.0
75°	595.5	604.1	727.8	880.3	1340.5	2692.6	8014.5	8460.3	9677.2	9380.9
77.5°	445.9	445.9	517.8	612.7	782.5	1041.4	3955.4	4545.2	5658.4	5088.9
80°	327.9	333.7	397.0	460.3	543.7	537.9	1570.7	1841.1	2594.8	2217.9
82.5°	256.0	264.7	307.8	342.3	382.6	325.1	644.4	693.3	1067.3	848.6
85°	178.4	184.1	241.6	233.0	233.0	181.2	267.5	281.9	422.9	402.7
87.5°	43.2	48.9	117.9	129.5	97.8	54.7	83.4	94.9	152.5	175.5
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°
3299.6	0°	3299.6	3299.6	3299.6	3299.6	3299.6	3299.6	3299.6	3299.6	3299.6	3299.6
3357.1	2.5°	3313.9	3325.5	3374.4	3348.5	3362.8	3302.4	3351.3	3311.1	3345.6	3328.3
3383.0	5°	3406.0	3380.1	3408.9	3388.7	3388.7	3411.8	3446.3	3420.4	3472.2	3449.1
3403.1	7.5°	3443.4	3446.3	3463.5	3466.4	3452.0	3523.9	3526.8	3518.2	3567.1	3555.6
3541.2	10°	3535.4	3538.3	3570.0	3587.2	3572.8	3598.7	3570.0	3547.0	3544.1	3532.6
3650.5	12.5°	3682.2	3710.9	3705.2	3719.6	3722.4	3613.1	3547.0	3434.8	3420.4	3434.8
3811.6	15°	3817.4	3805.9	3811.6	3840.4	3719.6	3544.1	3426.1	3331.2	3337.0	3339.8
4021.6	17.5°	3978.5	3987.1	3995.7	3863.4	3641.9	3434.8	3331.2	3331.2	3302.4	3313.9
4168.3	20°	4162.6	4128.0	4053.3	3866.3	3506.7	3308.2	3276.5	3276.5	3242.0	3219.0
4326.5	22.5°	4306.4	4237.4	4125.2	3777.1	3385.9	3259.3	3181.6	3127.0	3086.7	3040.7
4502.0	25°	4398.5	4361.1	4142.4	3685.0	3296.7	3129.8	3014.8	2931.3	2879.6	2819.2
4640.1	27.5°	4539.4	4467.5	4191.3	3578.6	3198.9	3000.4	2822.0	2692.6	2594.8	2531.5
4850.1	30°	4729.3	4625.7	4156.8	3426.1	3049.3	2776.0	2566.0	2399.2	2287.0	2235.2
5048.6	32.5°	4884.6	4749.4	4128.0	3288.1	2882.4	2548.7	2269.7	2100.0	2036.7	1970.5
5382.3	35°	5180.9	4913.4	4107.9	3210.4	2732.9	2321.5	2028.1	1881.4	1800.8	1703.0
5580.8	37.5°	5408.2	5198.2	4059.0	3049.3	2540.1	2100.0	1844.0	1711.6	1590.8	1487.2
6041.0	40°	5764.9	5595.2	4061.9	2822.0	2312.9	1910.1	1700.1	1562.0	1409.6	1320.4
6722.8	42.5°	6435.2	5986.4	4079.1	2640.8	2056.8	1754.8	1570.7	1406.7	1254.2	1179.4
7499.5	45°	7257.9	6524.3	3972.7	2476.8	1795.1	1608.1	1415.3	1251.4	1153.6	1098.9
8555.3	47.5°	8204.3	7050.8	3828.9	2169.0	1576.4	1452.7	1271.5	1176.6	1104.6	1073.0
9915.9	50°	9262.9	7804.5	3788.6	1887.1	1406.7	1320.4	1202.5	1130.5	1081.6	1044.2
11449.2	52.5°	10626.5	8681.8	3708.1	1596.6	1260.0	1214.0	1176.6	1127.7	1084.5	1052.9
12878.9	55°	11929.6	9654.2	3621.8	1357.8	1156.4	1162.2	1182.3	1139.2	1101.8	1052.9
14481.2	57.5°	13396.7	10646.6	3302.4	1182.3	1078.8	1136.3	1176.6	1127.7	1090.3	1052.9
16121.0	60°	14302.9	11204.7	2678.2	1029.9	1009.7	1087.4	1142.0	1090.3	1050.0	1064.4
16874.7	62.5°	14671.1	10911.3	2019.4	934.9	960.8	1021.2	1087.4	1067.3	1038.5	1093.1
16866.0	65°	14044.0	10235.3	1444.1	854.4	894.6	955.1	1038.5	1061.5	1070.1	1176.6
15491.0	67.5°	12496.3	8912.0	1061.5	788.2	825.6	914.8	1073.0	1110.4	1104.6	1237.0
12999.8	70°	9999.4	6970.2	828.5	733.6	799.7	946.4	1121.9	1121.9	1081.6	1237.0
9915.9	72.5°	7275.1	4913.4	713.4	670.3	733.6	868.8	1116.2	1113.3	1061.5	1130.5
6314.3	75°	4404.2	2859.4	630.0	607.0	630.0	745.1	1067.3	1050.0	978.1	972.3
3037.8	77.5°	2194.9	1438.3	514.9	537.9	549.4	624.2	937.8	963.7	865.9	842.9
1199.6	80°	926.3	627.1	428.6	463.1	463.1	526.4	779.6	796.8	719.2	676.0
474.7	82.5°	422.9	359.6	365.3	402.7	376.8	408.5	618.5	638.6	584.0	512.1
201.4	85°	178.4	204.2	279.0	316.4	279.0	264.7	425.7	448.8	379.7	316.4
86.3	87.5°	80.5	112.2	175.5	230.1	141.0	123.7	227.3	235.9	189.9	141.0
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>
3299.6
3296.7
3417.5
3538.3
3532.6
3440.5
3380.1
3316.8
3184.5
3014.8
2830.7
2560.3
2264.0
1967.7
1694.4
1490.1
1329.0
1185.2
1110.4
1067.3
1050.0
1050.0
1050.0
1050.0
1052.9
1078.8
1176.6
1245.6
1211.1
1090.3
960.8
828.5
661.6
500.5
319.3
132.3
0.0

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