

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: P477284

Luminaire Tested: **IFLD-L-SA7A-727-U-T3**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477284  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7A-727-U-T3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens  
Light Source: (112) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

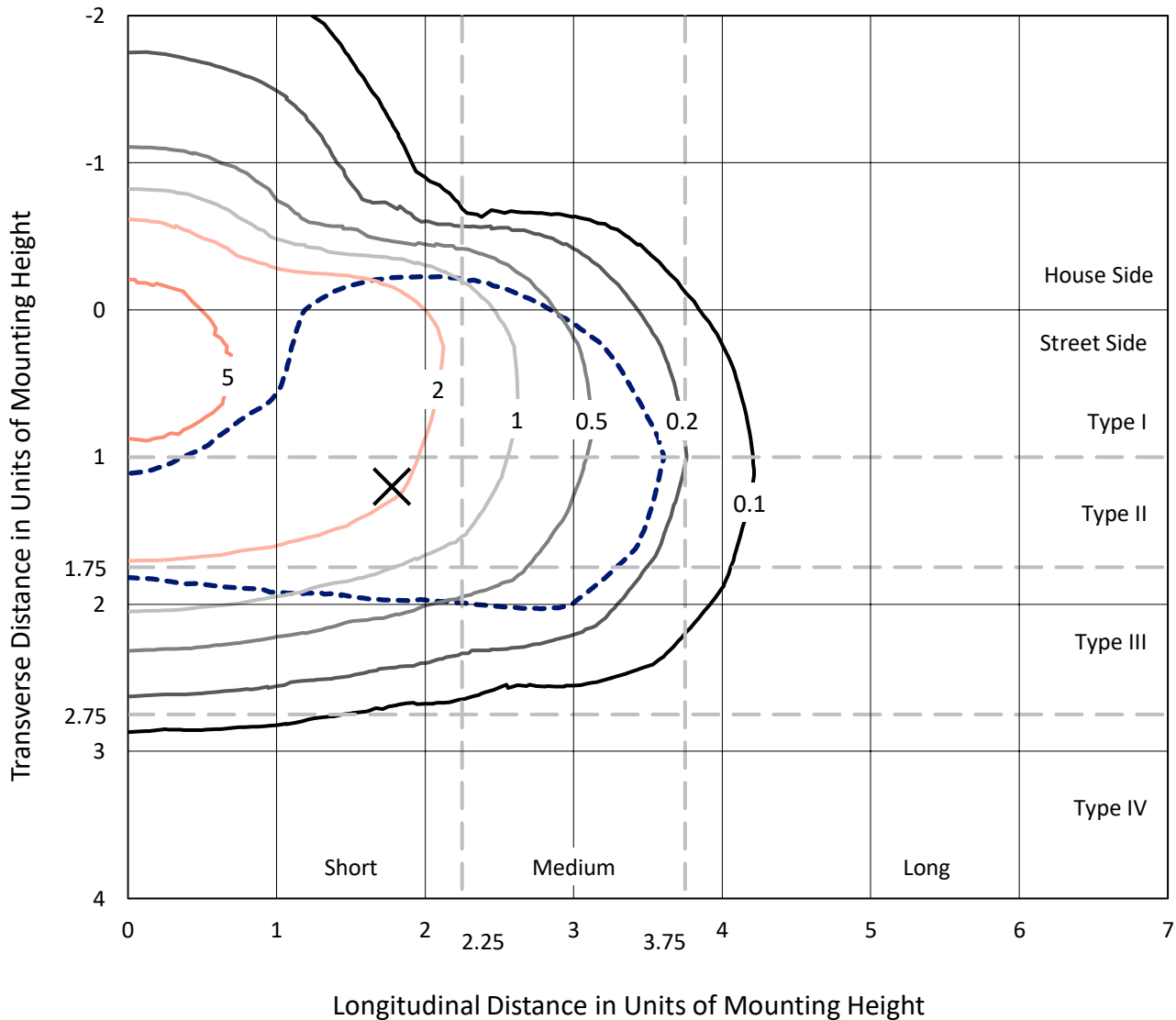
Lumens per Lamp: N/A  
Luminaire Lumens: 26661.4 lumens  
Efficiency: N/A  
Efficacy: 122.5 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 217.6  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

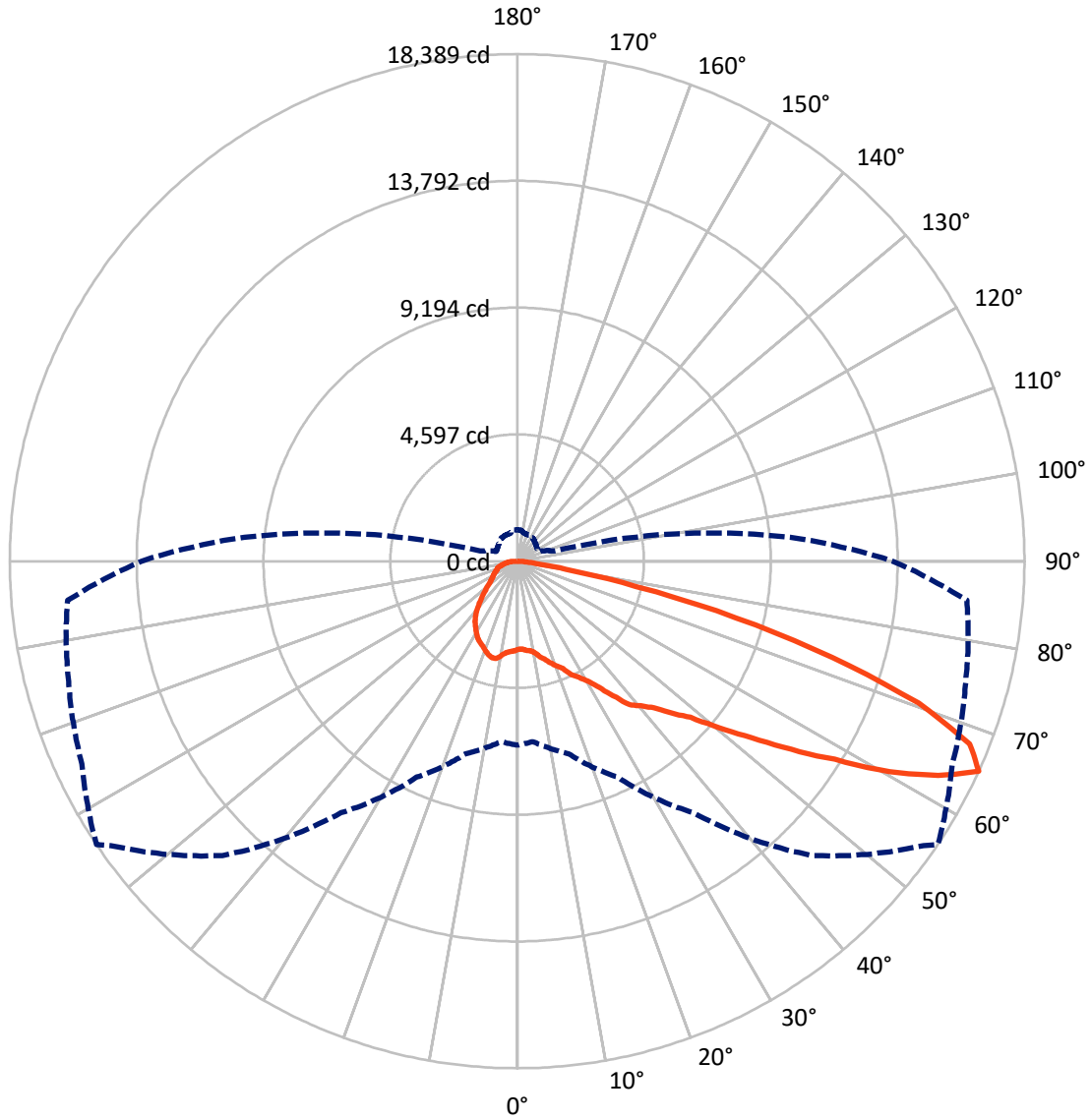
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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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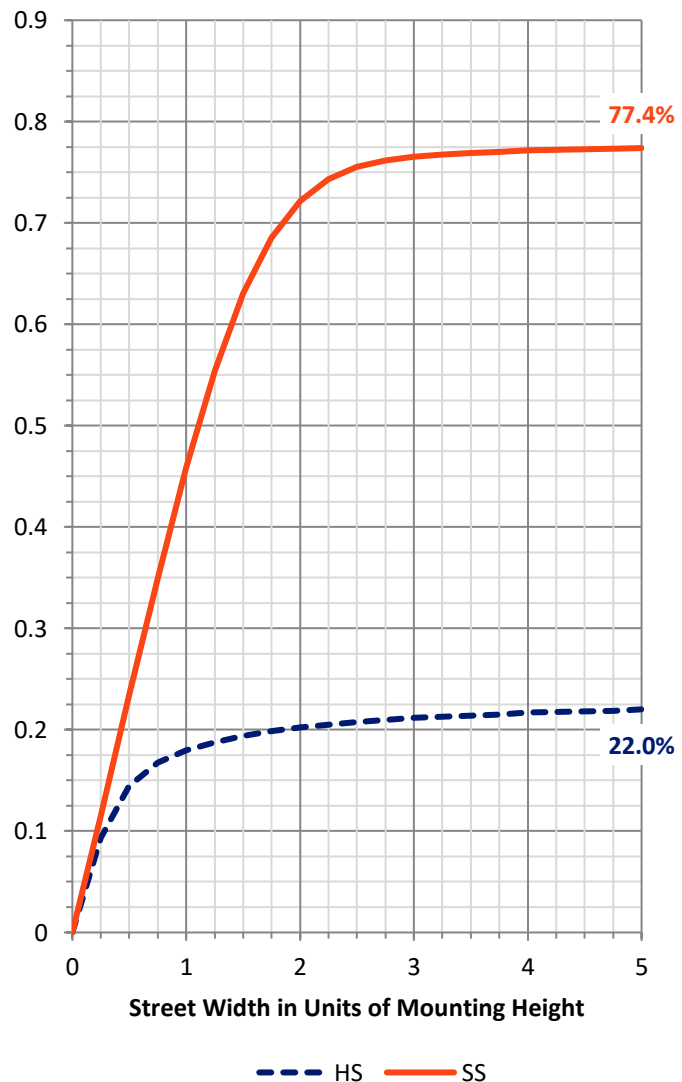
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5979.3	0.0	5979.3
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	20682.1	0.0	20682.1
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	26661.4	0.0	26661.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	317.1	1.2
10°-20°	1029.7	3.9
20°-30°	1833.5	6.9
30°-40°	2745.6	10.3
40°-50°	4068.0	15.3
50°-60°	6268.2	23.5
60°-70°	7096.4	26.6
70°-80°	2945.1	11.0
80°-90°	357.8	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°	26661.4	100.0
0°-180°	26661.4	100.0

**Coefficient of Utilization**

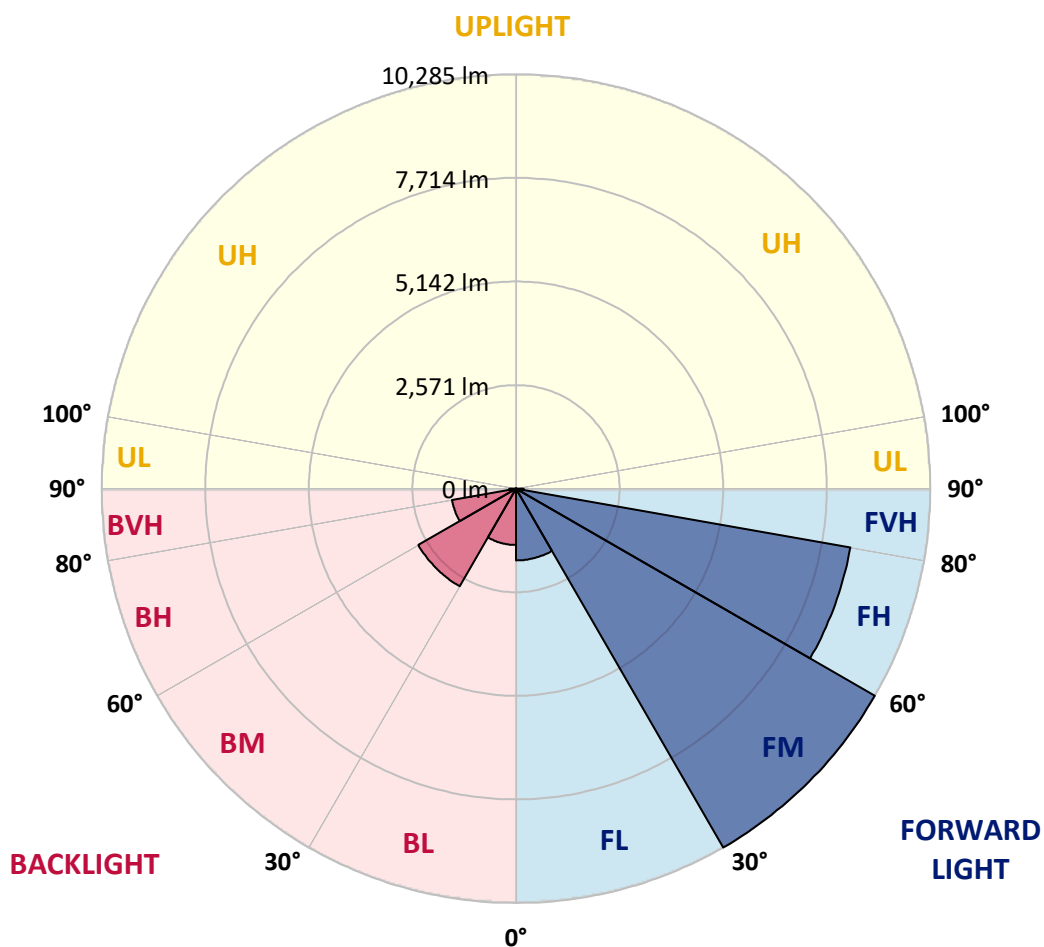


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1781.8	6.7			
FM (30°-60°)	10284.8	38.6			
FH (60°-80°)	8426.8	31.6			G4/12000
FVH (80°-90°)	188.7	0.7			G2/225
BL (0°-30°)	1398.6	5.2	B3/2500		
BM (30°-60°)	2797.0	10.5	B3/5000		
BH (60°-80°)	1614.6	6.1	B3/2500		G3/2500
BVH (80°-90°)	169.1	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°	3200.1	3200.1	3200.1	3200.1	3200.1	3200.1	3200.1	3200.1	3200.1	3200.1
2.5°	3116.4	3133.2	3122.0	3155.5	3183.4	3183.4	3205.7	3189.0	3211.3	3242.0
5°	3219.7	3152.7	3189.0	3205.7	3197.3	3211.3	3189.0	3244.8	3208.5	3267.1
7.5°	3244.8	3269.9	3300.6	3272.7	3297.8	3283.8	3286.6	3278.3	3258.7	3306.2
10°	3428.9	3392.6	3462.4	3420.5	3415.0	3409.4	3398.2	3356.4	3403.8	3406.6
12.5°	3641.0	3607.5	3604.7	3571.2	3615.8	3534.9	3551.7	3529.4	3537.7	3548.9
15°	3794.4	3780.5	3844.6	3805.6	3747.0	3710.7	3749.8	3688.4	3719.1	3713.5
17.5°	4098.5	4095.7	4048.3	3984.1	3950.6	3897.6	3889.3	3864.2	3886.5	3875.3
20°	4310.6	4341.2	4349.6	4274.3	4145.9	4087.4	4073.4	4053.9	4079.0	4070.6
22.5°	4634.2	4586.8	4623.0	4491.9	4444.5	4305.0	4254.8	4226.9	4346.8	4316.1
25°	4840.7	4890.9	4854.6	4810.0	4703.9	4531.0	4494.7	4556.1	4603.5	4570.0
27.5°	5306.6	5256.4	5222.9	5089.0	5019.2	4837.9	4796.0	4773.7	4784.9	4804.4
30°	5660.9	5688.8	5613.5	5518.6	5342.9	5158.7	5061.1	5041.5	5002.5	4969.0
32.5°	6165.9	6124.1	6079.4	6018.0	5867.4	5624.6	5529.8	5457.2	5340.1	5183.8
35°	6408.6	6528.6	6495.1	6330.5	6216.1	6124.1	6096.2	5984.6	5886.9	5641.4
37.5°	6813.2	6863.4	6816.0	6763.0	6710.0	6612.3	6578.8	6609.5	6417.0	6012.5
40°	7075.4	7181.5	7279.1	7131.2	7120.1	7139.6	6933.2	6896.9	6500.7	6288.7
42.5°	7611.1	7655.8	7675.3	7669.7	7733.9	7733.9	7340.5	7262.4	6980.6	6807.6
45°	8319.8	8356.1	8425.8	8476.0	8403.5	8439.8	7879.0	7848.3	7597.2	7563.7
47.5°	8933.6	9020.1	9176.3	9324.2	9419.0	9296.3	8682.5	8464.9	8400.7	8601.6
50°	9469.3	9366.0	9731.5	9882.2	10297.9	10501.6	9569.7	9483.2	9380.0	9765.0
52.5°	9522.3	9661.8	10177.9	10479.2	11335.8	11712.4	10657.8	10621.5	10496.0	10939.6
55°	9901.7	9885.0	10403.9	11056.8	12075.1	12708.5	12075.1	12052.8	11779.4	12200.7
57.5°	9837.5	10007.7	10417.9	11330.2	12741.9	13777.0	13718.4	13565.0	13182.8	13525.9
60°	9619.9	9664.6	10164.0	11321.8	13129.7	14873.5	15492.9	15523.6	14742.4	15015.8
62.5°	8386.7	8490.0	9123.3	10431.8	12853.5	15629.6	17225.5	17116.7	16491.7	16179.2
65°	6670.9	6567.7	7226.1	8640.6	11134.9	15093.9	17984.4	18388.9	17406.8	16834.9
67.5°	4090.1	4065.0	4698.4	5945.5	8330.9	12845.2	17378.9	17694.2	17152.9	16695.4
70°	2106.5	2042.3	2438.5	3317.3	5236.8	9424.6	15124.6	15434.3	15950.4	14973.9
72.5°	982.1	968.1	1180.2	1632.2	2667.2	5540.9	11712.4	11935.6	13023.7	12624.8
75°	577.5	585.9	705.9	853.7	1300.1	2611.4	7772.9	8205.4	9385.6	9098.2
77.5°	432.5	432.5	502.2	594.3	758.9	1010.0	3836.3	4408.2	5487.9	4935.5
80°	318.1	323.6	385.0	446.4	527.3	521.7	1523.3	1785.6	2516.6	2151.1
82.5°	248.3	256.7	298.5	332.0	371.1	315.3	625.0	672.4	1035.1	823.1
85°	173.0	178.6	234.4	226.0	226.0	175.8	259.5	273.4	410.1	390.6
87.5°	41.9	47.4	114.4	125.6	94.9	53.0	80.9	92.1	147.9	170.2
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°
3200.1	0°	3200.1	3200.1	3200.1	3200.1	3200.1	3200.1	3200.1	3200.1	3200.1	3200.1
3255.9	2.5°	3214.1	3225.2	3272.7	3247.6	3261.5	3202.9	3250.4	3211.3	3244.8	3228.0
3281.0	5°	3303.4	3278.3	3306.2	3286.6	3286.6	3308.9	3342.4	3317.3	3367.5	3345.2
3300.6	7.5°	3339.6	3342.4	3359.2	3362.0	3348.0	3417.8	3420.5	3412.2	3459.6	3448.4
3434.5	10°	3428.9	3431.7	3462.4	3479.1	3465.2	3490.3	3462.4	3440.1	3437.3	3426.1
3540.5	12.5°	3571.2	3599.1	3593.5	3607.5	3610.3	3504.2	3440.1	3331.3	3317.3	3331.3
3696.8	15°	3702.3	3691.2	3696.8	3724.7	3607.5	3437.3	3322.9	3230.8	3236.4	3239.2
3900.4	17.5°	3858.6	3866.9	3875.3	3747.0	3532.1	3331.3	3230.8	3230.8	3202.9	3214.1
4042.7	20°	4037.1	4003.7	3931.1	3749.8	3401.0	3208.5	3177.8	3177.8	3144.3	3122.0
4196.2	22.5°	4176.6	4109.7	4000.9	3663.3	3283.8	3161.1	3085.7	3032.7	2993.7	2949.0
4366.4	25°	4265.9	4229.6	4017.6	3574.0	3197.3	3035.5	2923.9	2843.0	2792.8	2734.2
4500.3	27.5°	4402.6	4332.9	4065.0	3470.8	3102.5	2910.0	2737.0	2611.4	2516.6	2455.2
4703.9	30°	4586.8	4486.3	4031.6	3322.9	2957.4	2692.4	2488.7	2326.9	2218.1	2167.8
4896.5	32.5°	4737.4	4606.3	4003.7	3189.0	2795.6	2471.9	2201.3	2036.7	1975.3	1911.2
5220.1	35°	5024.8	4765.3	3984.1	3113.6	2650.5	2251.5	1967.0	1824.7	1746.5	1651.7
5412.6	37.5°	5245.2	5041.5	3936.7	2957.4	2463.6	2036.7	1788.4	1660.1	1542.9	1442.4
5859.0	40°	5591.2	5426.6	3939.5	2737.0	2243.2	1852.6	1648.9	1515.0	1367.1	1280.6
6520.2	42.5°	6241.2	5806.0	3956.2	2561.2	1994.9	1701.9	1523.3	1364.3	1216.4	1143.9
7273.5	45°	7039.2	6327.7	3853.0	2402.2	1741.0	1559.6	1372.7	1213.7	1118.8	1065.8
8297.5	47.5°	7957.1	6838.3	3713.5	2103.7	1528.9	1409.0	1233.2	1141.1	1071.4	1040.7
9617.1	50°	8983.8	7569.3	3674.4	1830.2	1364.3	1280.6	1166.2	1096.5	1049.0	1012.8
11104.2	52.5°	10306.3	8420.2	3596.3	1548.5	1222.0	1177.4	1141.1	1093.7	1051.8	1021.1
12490.8	55°	11570.1	9363.2	3512.6	1316.9	1121.6	1127.2	1146.7	1104.8	1068.6	1021.1
14044.9	57.5°	12993.0	10325.8	3202.9	1146.7	1046.3	1102.1	1141.1	1093.7	1057.4	1021.1
15635.2	60°	13871.9	10867.1	2597.5	998.8	979.3	1054.6	1107.6	1057.4	1018.4	1032.3
16366.2	62.5°	14229.0	10582.5	1958.6	906.8	931.9	990.5	1054.6	1035.1	1007.2	1060.2
16357.8	65°	13620.8	9926.8	1400.6	828.6	867.7	926.3	1007.2	1029.5	1037.9	1141.1
15024.2	67.5°	12119.8	8643.4	1029.5	764.5	800.7	887.2	1040.7	1076.9	1071.4	1199.7
12608.0	70°	9698.0	6760.2	803.5	711.5	775.6	917.9	1088.1	1088.1	1049.0	1199.7
9617.1	72.5°	7055.9	4765.3	691.9	650.1	711.5	842.6	1082.5	1079.7	1029.5	1096.5
6124.1	75°	4271.5	2773.3	611.0	588.7	611.0	722.6	1035.1	1018.4	948.6	943.0
2946.2	77.5°	2128.8	1395.0	499.4	521.7	532.9	605.4	909.5	934.7	839.8	817.5
1163.4	80°	898.4	608.2	415.7	449.2	449.2	510.6	756.1	772.8	697.5	655.7
460.4	82.5°	410.1	348.8	354.3	390.6	365.5	396.2	599.9	619.4	566.4	496.6
195.3	85°	173.0	198.1	270.6	306.9	270.6	256.7	412.9	435.2	368.3	306.9
83.7	87.5°	78.1	108.8	170.2	223.2	136.7	120.0	220.4	228.8	184.1	136.7
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>
3200.1
3197.3
3314.5
3431.7
3426.1
3336.8
3278.3
3216.9
3088.5
2923.9
2745.4
2483.1
2195.7
1908.4
1643.3
1445.2
1289.0
1149.5
1076.9
1035.1
1018.4
1018.4
1018.4
1018.4
1021.1
1046.3
<i>1141.1</i>
1208.1
1174.6
1057.4
931.9
803.5
641.7
485.5
309.7
128.3
0.0

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