

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: P477652

Luminaire Tested: **IFLD-S-SA3D-727-U-T3R**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P477652  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3D-727-U-T3R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens  
Light Source: (48) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

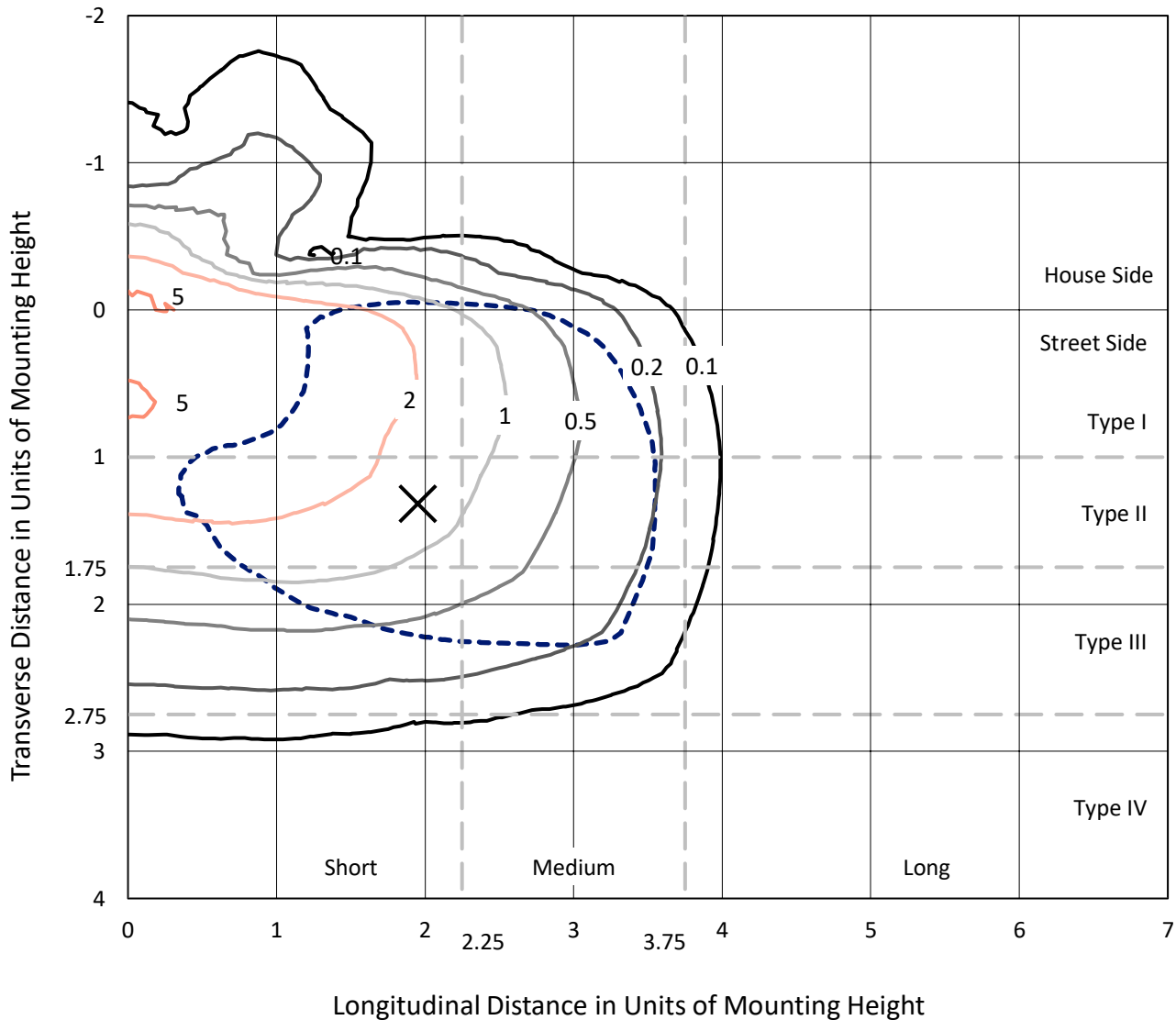
Lumens per Lamp: N/A  
Luminaire Lumens: 19146.6 lumens  
Efficiency: N/A  
Efficacy: 104.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 184.1  
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

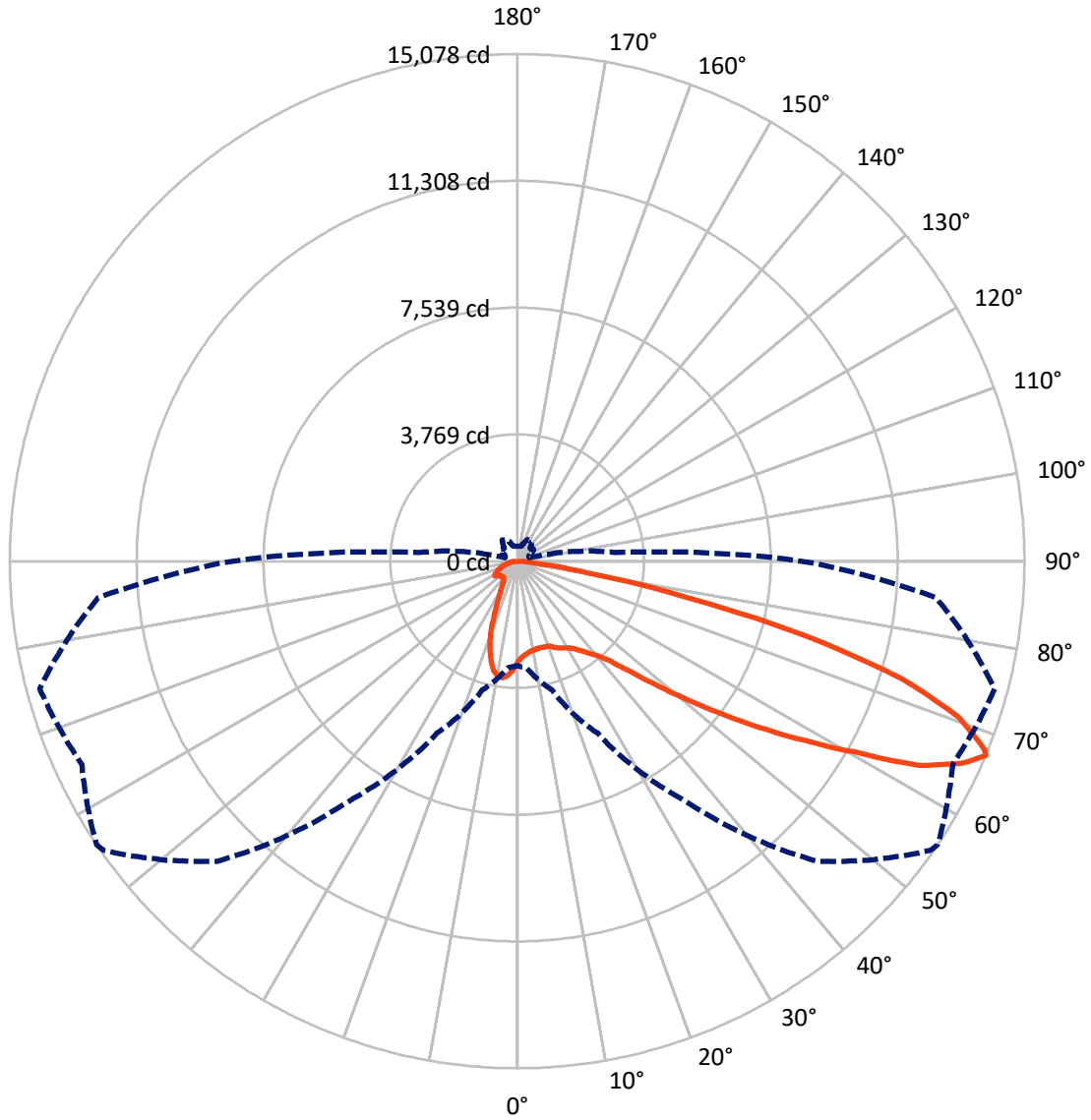
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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
<b>House Side</b>	Lumens	3031.1	0.0	3031.1
	% Fixture	15.8	0.0	15.8
<b>Street Side</b>	Lumens	16115.5	0.0	16115.5
	% Fixture	84.2	0.0	84.2
<b>Total</b>	Lumens	19146.6	0.0	19146.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	287.0	1.5
10°-20°	783.0	4.1
20°-30°	1227.9	6.4
30°-40°	1752.9	9.2
40°-50°	2645.7	13.8
50°-60°	4211.4	22.0
60°-70°	5384.0	28.1
70°-80°	2625.1	13.7
80°-90°	229.6	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°	19146.6	100.0
0°-180°	19146.6	100.0

**Coefficient of Utilization**

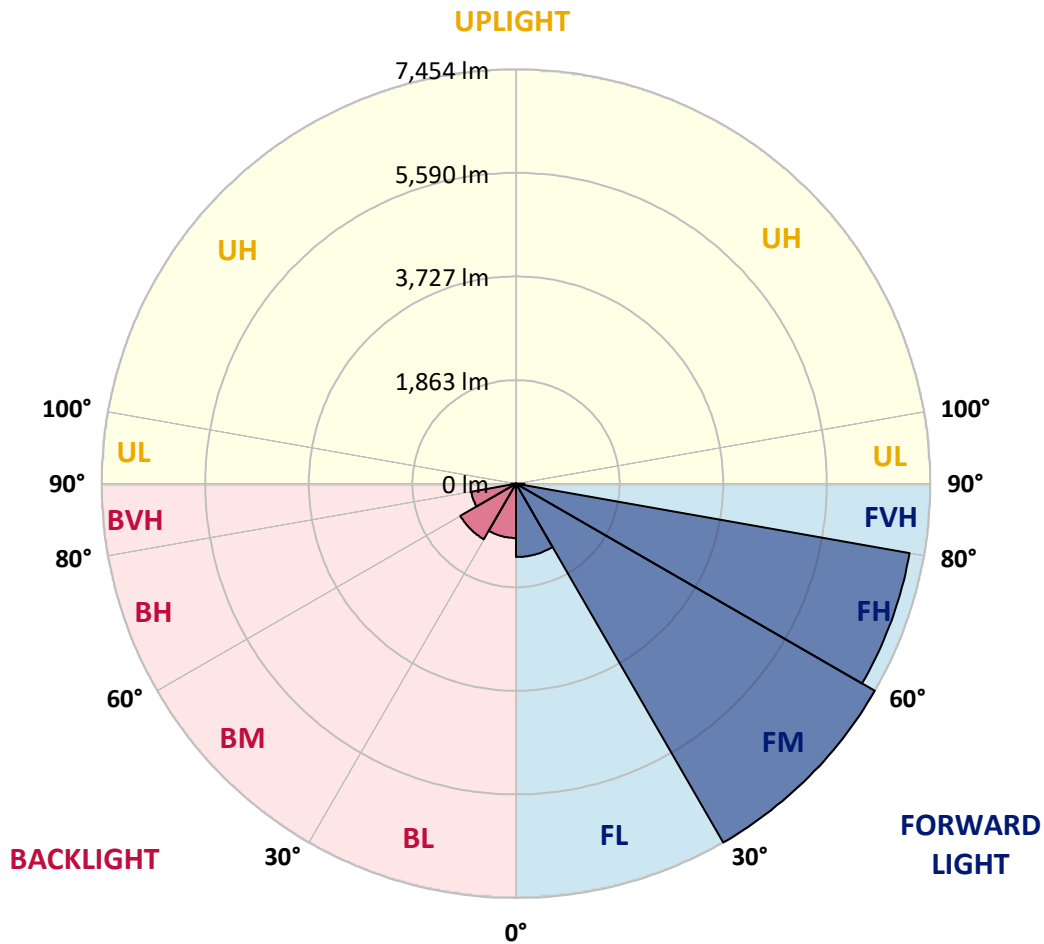


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1319.4	6.9			
FM (30°-60°)	7453.6	38.9			
FH (60°-80°)	7190.0	37.6			G3/7500
FVH (80°-90°)	152.5	0.8			G2/225
BL (0°-30°)	978.5	5.1	B2/1000		
BM (30°-60°)	1156.4	6.0	B2/2500		
BH (60°-80°)	819.1	4.3	B2/1000		G2/1000
BVH (80°-90°)	77.1	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**  
 Type III Short





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 CATALOG NUMBER: IFLD-S-SA3D-727-U-T3R

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	2979.2	2979.2	2979.2	2979.2	2979.2	2979.2	2979.2	2979.2	2979.2	2979.2
2.5°	2736.7	2725.5	2738.9	2725.5	2786.1	2822.0	2833.2	2848.9	2905.1	2959.0
5°	2622.2	2572.8	2626.7	2644.6	2649.1	2709.8	2772.6	2783.8	2813.0	2900.6
7.5°	2431.4	2487.5	2467.3	2521.2	2577.3	2637.9	2741.2	2712.0	2819.8	2902.8
10°	2391.0	2395.4	2417.9	2438.1	2487.5	2566.1	2709.8	2691.8	2801.8	2979.2
12.5°	2431.4	2431.4	2424.6	2408.9	2465.0	2541.4	2655.9	2664.9	2837.7	3001.6
15°	2572.8	2599.7	2527.9	2539.1	2516.7	2541.4	2642.4	2662.6	2851.2	3019.6
17.5°	2918.5	2909.6	2824.3	2705.3	2606.5	2590.8	2660.4	2682.8	2837.7	3071.2
20°	3255.3	3237.3	3089.2	2965.7	2770.4	2678.3	2689.5	2691.8	2860.2	3104.9
22.5°	3630.2	3677.4	3515.7	3264.3	3021.8	2792.8	2747.9	2783.8	2911.8	3122.8
25°	4218.4	4117.4	3978.2	3648.2	3257.5	2970.2	2844.5	2862.4	2961.2	3167.7
27.5°	4642.7	4602.3	4384.5	4117.4	3587.6	3109.4	2896.1	2929.8	3051.0	3165.5
30°	5051.3	5051.3	4918.9	4519.3	3935.5	3342.9	3006.1	2990.4	3008.3	3161.0
32.5°	5529.5	5464.4	5273.6	5008.7	4373.3	3556.1	3093.7	3098.1	3098.1	3244.1
35°	5781.0	5886.5	5758.5	5327.5	4707.8	3910.8	3304.7	3271.0	3246.3	3336.1
37.5°	6149.1	6212.0	6077.3	5823.6	5123.2	4198.2	3491.0	3464.1	3320.4	3408.0
40°	6371.4	6360.2	6355.7	6238.9	5673.2	4537.2	3764.9	3695.3	3502.3	3661.6
42.5°	6497.1	6474.7	6750.8	6679.0	6191.8	5035.6	4108.4	4070.2	3857.0	4112.9
45°	6638.6	6804.7	7031.4	7233.5	6795.7	5736.1	4689.9	4636.0	4445.2	4770.7
47.5°	6762.0	6966.3	7255.9	7471.5	7341.3	6497.1	5408.3	5421.8	5296.0	5630.5
50°	6968.6	6988.8	7381.7	7817.2	7918.2	7199.8	6373.6	6351.2	6295.1	6764.3
52.5°	6905.7	6966.3	7462.5	8019.3	8185.4	7942.9	7410.9	7478.2	7404.1	7994.6
55°	5882.0	6063.8	7413.1	8232.5	8818.5	8782.6	8744.4	8699.5	8695.0	9377.5
57.5°	5417.3	5565.4	6530.8	8468.3	9496.5	9761.4	10008.4	10057.7	10055.5	10879.4
60°	5111.9	5264.6	6173.8	8340.3	10073.5	11043.3	11517.0	11523.8	11510.3	12484.6
62.5°	4514.8	4662.9	5556.5	7639.8	10232.9	12226.4	13281.6	13369.2	12751.8	13867.6
65°	3796.4	3917.6	4705.6	6569.0	9808.5	12978.5	14608.4	14505.2	13798.0	14657.8
67°	3104.9	3185.7	3953.5	5639.5	8699.5	12617.1	14992.3	15077.6	14280.7	14691.5
67.5°	2907.3	2981.4	3706.5	5323.0	8277.4	12343.2	15005.8	14992.3	14289.6	14698.2
70°	2018.3	2049.7	2525.7	3661.6	6097.5	10428.2	13910.2	13941.7	13690.2	13901.2
72.5°	1338.0	1385.2	1688.3	2307.9	3594.3	7588.2	11627.0	11963.8	11804.4	11398.0
75°	862.1	889.0	1104.6	1374.0	1769.1	4321.7	8589.5	8814.0	8448.1	7049.4
77.5°	482.7	511.9	666.8	835.2	862.1	1798.3	4824.6	5103.0	4323.9	2994.9
80°	300.8	339.0	502.9	496.2	410.8	660.0	1989.1	2130.5	1728.7	1030.5
82.5°	226.7	255.9	388.4	348.0	231.2	294.1	745.4	799.2	633.1	397.4
85°	154.9	195.3	280.6	215.5	121.2	141.4	296.3	318.8	289.6	193.1
87.5°	56.1	83.1	145.9	107.8	53.9	42.7	96.5	107.8	103.3	87.6
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°
2979.2	0°	2979.2	2979.2	2979.2	2979.2	2979.2	2979.2	2979.2	2979.2	2979.2	2979.2
3006.1	2.5°	3048.8	3080.2	3095.9	3187.9	3226.1	3219.4	3228.4	3241.8	3255.3	3273.3
3044.3	5°	3073.4	3170.0	3221.6	3329.4	3401.2	3369.8	3410.2	3399.0	3383.3	3381.0
3113.9	7.5°	3154.3	3277.7	3432.7	3461.8	3493.3	3414.7	3347.3	3255.3	3232.8	3154.3
3172.2	10°	3298.0	3399.0	3587.6	3598.8	3459.6	3257.5	3107.1	2916.3	2914.1	2799.6
3262.0	12.5°	3434.9	3549.4	3702.1	3637.0	3304.7	3028.5	2783.8	2575.1	2487.5	2429.1
3315.9	15°	3520.2	3708.8	3789.6	3509.0	3033.0	2660.4	2343.8	2119.3	2029.5	1986.9
3383.3	17.5°	3598.8	3861.5	3825.5	3284.5	2698.5	2281.0	1903.8	1708.5	1683.8	1652.3
3491.0	20°	3706.5	3917.6	3697.6	2992.6	2319.1	1791.5	1551.3	1457.0	1479.5	1492.9
3502.3	22.5°	3807.6	3946.8	3535.9	2673.8	1831.9	1418.9	1299.9	1320.1	1353.8	1398.7
3529.2	25°	3852.5	3993.9	3318.2	2233.8	1394.2	1194.4	1167.4	1201.1	1257.2	1259.5
3567.4	27.5°	3881.7	3960.2	3055.5	1805.0	1102.3	1043.9	1084.4	1109.0	1115.8	1142.7
3648.2	30°	3933.3	3890.6	2723.2	1290.9	925.0	927.2	978.8	978.8	978.8	999.0
3729.0	32.5°	4023.1	3843.5	2334.8	942.9	797.0	868.8	855.4	850.9	841.9	817.2
3832.3	35°	4079.2	3715.5	1843.2	698.2	716.2	797.0	792.5	722.9	606.2	547.8
4094.9	37.5°	4196.0	3650.4	1356.0	538.8	669.0	761.1	736.4	568.0	440.0	383.9
4420.5	40°	4447.4	3607.8	938.4	471.5	637.6	743.1	657.8	484.9	336.8	238.0
4923.4	42.5°	4755.0	3610.0	637.6	444.5	639.8	781.3	633.1	415.3	238.0	190.8
5594.6	45°	5168.1	3576.3	437.8	444.5	680.2	844.1	648.8	377.2	231.2	242.5
6436.5	47.5°	5612.6	3605.5	325.5	404.1	687.0	846.4	592.7	370.4	222.3	280.6
7352.5	50°	6131.2	3634.7	269.4	372.7	689.2	819.4	545.5	361.5	231.2	296.3
8403.2	52.5°	6665.5	3726.8	229.0	352.5	716.2	808.2	545.5	374.9	231.2	258.2
9741.2	55°	7462.5	3962.5	330.0	440.0	814.9	882.3	671.3	525.3	323.3	332.3
11023.1	57.5°	8342.5	4204.9	368.2	462.5	837.4	794.7	722.9	579.2	341.2	343.5
12019.9	60°	8921.8	4213.9	365.9	451.3	783.5	687.0	707.2	610.6	348.0	294.1
12637.3	62.5°	9153.0	3940.0	381.7	451.3	729.6	642.1	725.1	657.8	359.2	368.2
12812.4	65°	8890.3	3374.3	368.2	404.1	642.1	574.7	729.6	666.8	392.9	370.4
12498.1	67°	8479.5	2907.3	374.9	383.9	597.2	545.5	767.8	700.5	455.7	444.5
12334.2	67.5°	8362.7	2783.8	372.7	372.7	581.5	536.6	776.8	700.5	464.7	460.2
10886.2	70°	7370.4	2256.3	381.7	368.2	514.1	509.6	826.2	738.6	534.3	538.8
7996.8	72.5°	5610.3	1710.7	379.4	368.2	446.8	487.2	832.9	763.3	581.5	538.8
4478.8	75°	3187.9	1023.7	334.5	321.0	352.5	424.3	779.0	727.4	565.7	482.7
1789.3	77.5°	1317.8	527.6	307.6	289.6	291.9	345.7	648.8	678.0	538.8	410.8
597.2	80°	491.7	316.5	247.0	231.2	224.5	253.7	462.5	541.1	460.2	336.8
262.7	82.5°	255.9	197.6	168.4	168.4	152.7	161.6	249.2	359.2	348.0	231.2
105.5	85°	130.2	112.3	96.5	94.3	85.3	76.3	125.7	213.3	199.8	128.0
47.1	87.5°	69.6	62.9	40.4	38.2	31.4	20.2	22.5	42.7	69.6	56.1
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>
2979.2
3291.2
3401.2
3181.2
2795.1
2415.7
1977.9
1668.1
1477.2
1374.0
1281.9
1167.4
1021.5
803.7
574.7
381.7
231.2
186.3
247.0
312.1
343.5
264.9
350.2
332.3
303.1
372.7
363.7
437.8
451.3
498.4
478.2
431.0
388.4
307.6
181.8
105.5
40.4
0.0

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