

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: P477670

Luminaire Tested: **IFLD-M-SA4B-727-U-T3R**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477670  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4B-727-U-T3R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens  
Light Source: (64) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

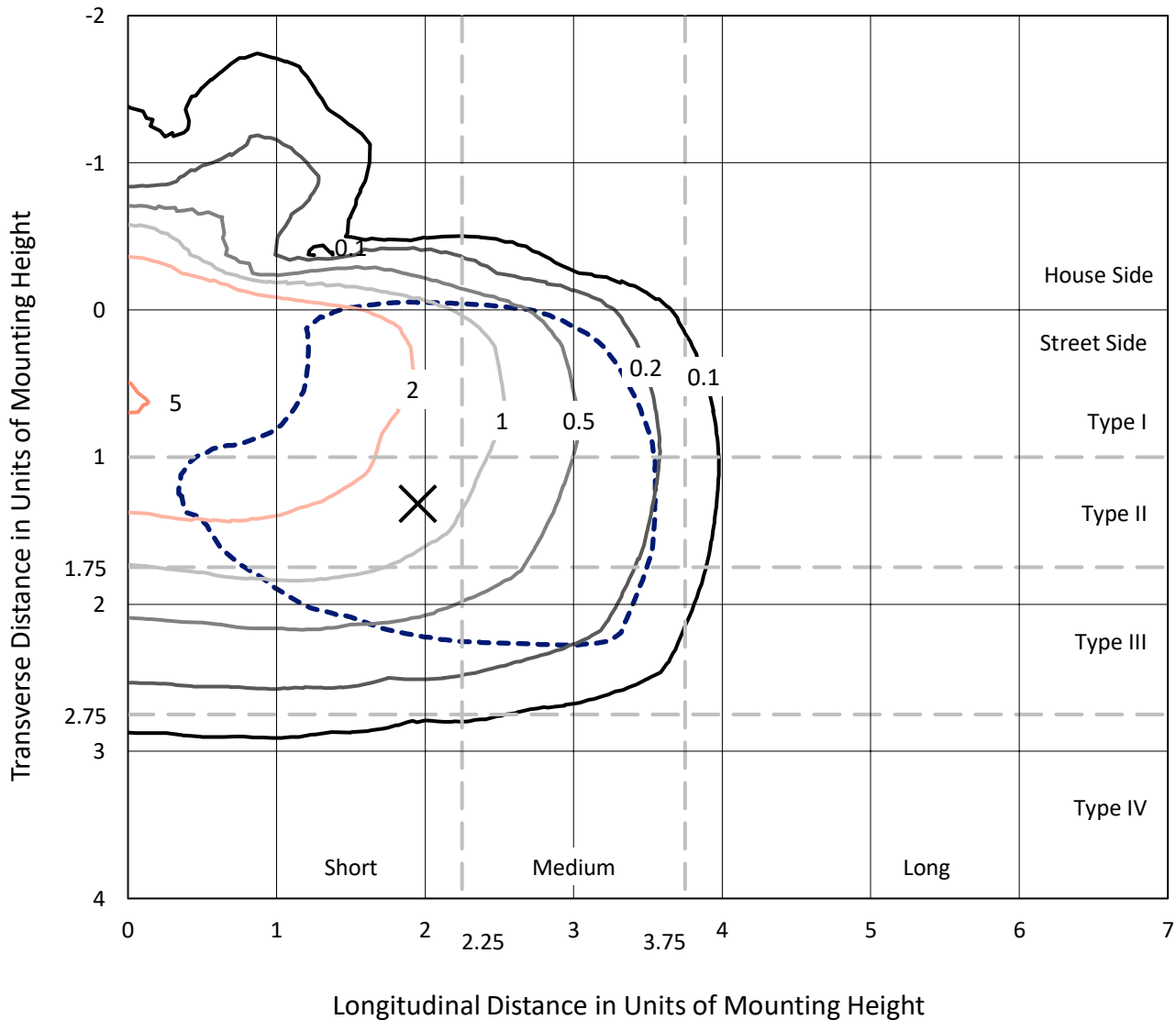
Lumens per Lamp: N/A  
Luminaire Lumens: 18762.5 lumens  
Efficiency: N/A  
Efficacy: 113.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 166.1  
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

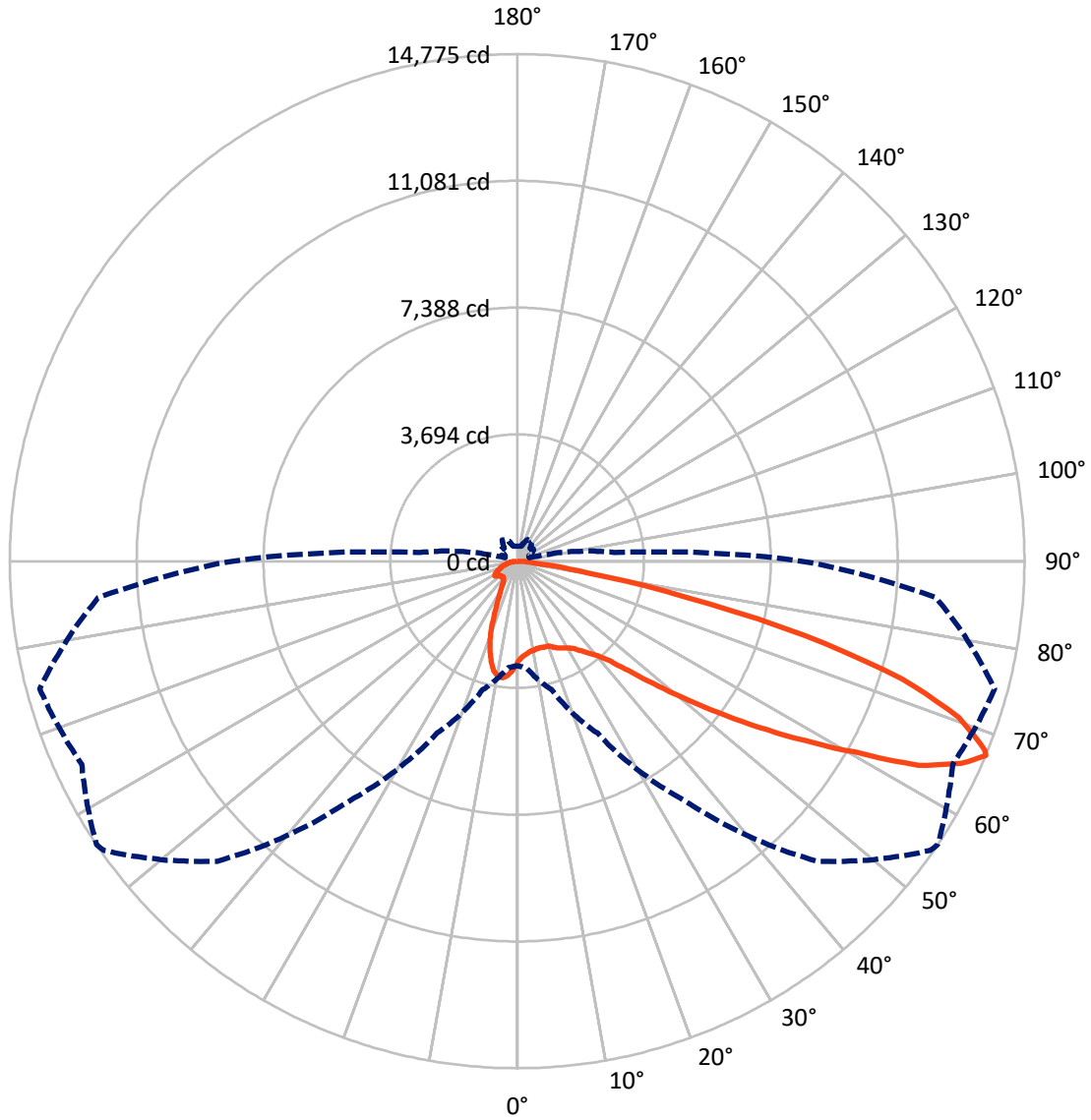
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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	2970.3	0.0	2970.3
	% Fixture	15.8	0.0	15.8
<b>Street Side</b>	Lumens	15792.2	0.0	15792.2
	% Fixture	84.2	0.0	84.2
<b>Total</b>	Lumens	18762.5	0.0	18762.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	281.2	1.5
10°-20°	767.3	4.1
20°-30°	1203.3	6.4
30°-40°	1717.8	9.2
40°-50°	2592.6	13.8
50°-60°	4126.9	22.0
60°-70°	5276.0	28.1
70°-80°	2572.4	13.7
80°-90°	225.0	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°	18762.5	100.0
0°-180°	18762.5	100.0

**Coefficient of Utilization**

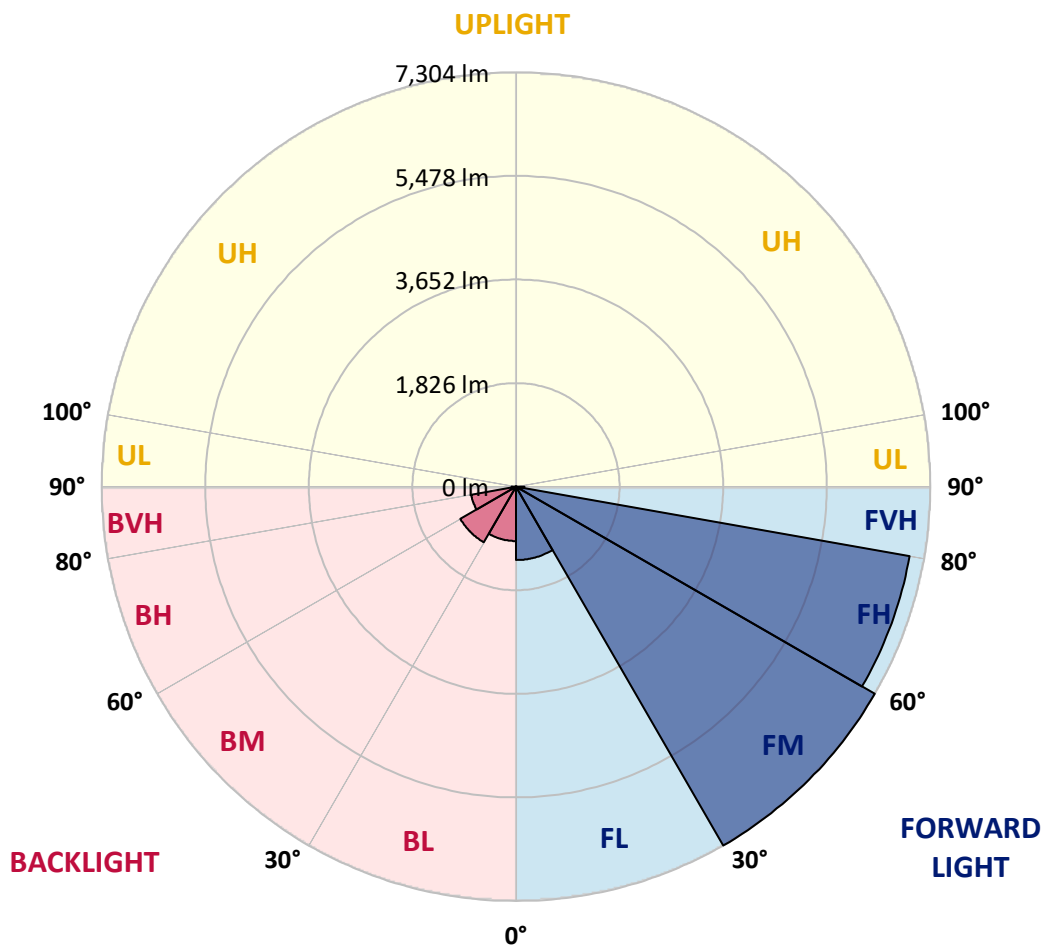


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1293.0	6.9			
FM (30°-60°)	7304.1	38.9			
FH (60°-80°)	7045.7	37.6			G3/7500
FVH (80°-90°)	149.4	0.8			G2/225
BL (0°-30°)	958.9	5.1	B2/1000		
BM (30°-60°)	1133.2	6.0	B2/2500		
BH (60°-80°)	802.6	4.3	B2/1000		G2/1000
BVH (80°-90°)	75.6	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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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	2919.4	2919.4	2919.4	2919.4	2919.4	2919.4	2919.4	2919.4	2919.4	2919.4
2.5°	2681.8	2670.8	2684.0	2670.8	2730.2	2765.4	2776.4	2791.8	2846.8	2899.6
5°	2569.6	2521.2	2574.0	2591.6	2596.0	2655.4	2717.0	2728.0	2756.6	2842.4
7.5°	2382.6	2437.6	2417.8	2470.6	2525.6	2585.0	2686.2	2657.6	2763.2	2844.6
10°	2343.0	2347.4	2369.4	2389.2	2437.6	2514.6	2655.4	2637.8	2745.6	2919.4
12.5°	2382.6	2382.6	2376.0	2360.6	2415.6	2490.4	2602.6	2611.4	2780.8	2941.4
15°	2521.2	2547.6	2477.2	2488.2	2466.2	2490.4	2589.4	2609.2	2794.0	2959.0
17.5°	2860.0	2851.2	2767.6	2651.0	2554.2	2538.8	2607.0	2629.0	2780.8	3009.6
20°	3190.0	3172.4	3027.2	2906.2	2714.8	2624.6	2635.6	2637.8	2802.8	3042.6
22.5°	3557.4	3603.6	3445.2	3198.8	2961.2	2736.8	2692.8	2728.0	2853.4	3060.2
25°	4133.8	4034.8	3898.4	3575.0	3192.2	2910.6	2787.4	2805.0	2901.8	3104.2
27.5°	4549.6	4510.0	4296.6	4034.8	3515.6	3047.0	2838.0	2871.0	2989.8	3102.0
30°	4950.0	4950.0	4820.2	4428.6	3856.6	3275.8	2945.8	2930.4	2948.0	3097.6
32.5°	5418.6	5354.8	5167.8	4908.2	4285.6	3484.8	3031.6	3036.0	3036.0	3179.0
35°	5665.0	5768.4	5643.0	5220.6	4613.4	3832.4	3238.4	3205.4	3181.2	3269.2
37.5°	6025.8	6087.4	5955.4	5706.8	5020.4	4114.0	3421.0	3394.6	3253.8	3339.6
40°	6243.6	6232.6	6228.2	6113.8	5559.4	4446.2	3689.4	3621.2	3432.0	3588.2
42.5°	6366.8	6344.8	6615.4	6545.0	6067.6	4934.6	4026.0	3988.6	3779.6	4030.4
45°	6505.4	6668.2	6890.4	7088.4	6659.4	5621.0	4595.8	4543.0	4356.0	4675.0
47.5°	6626.4	6826.6	7110.4	7321.6	7194.0	6366.8	5299.8	5313.0	5189.8	5517.6
50°	6828.8	6848.6	7233.6	7660.4	7759.4	7055.4	6245.8	6223.8	6168.8	6628.6
52.5°	6767.2	6826.6	7312.8	7858.4	8021.2	7783.6	7262.2	7328.2	7255.6	7834.2
55°	5764.0	5942.2	7264.4	8067.4	8641.6	8606.4	8569.0	8525.0	8520.6	9189.4
57.5°	5308.6	5453.8	6399.8	8298.4	9306.0	9565.6	9807.6	9856.0	9853.8	10661.2
60°	5009.4	5159.0	6050.0	8173.0	9871.4	10821.8	11286.0	11292.6	11279.4	12234.2
62.5°	4424.2	4569.4	5445.0	7486.6	10027.6	11981.2	13015.2	13101.0	12496.0	13589.4
65°	3720.2	3839.0	4611.2	6437.2	9611.8	12718.2	14315.4	14214.2	13521.2	14363.8
67°	3042.6	3121.8	3874.2	5526.4	8525.0	12364.0	14691.6	14775.2	13994.2	14396.8
67.5°	2849.0	2921.6	3632.2	5216.2	8111.4	12095.6	14704.8	14691.6	14003.0	14403.4
70°	1977.8	2008.6	2475.0	3588.2	5975.2	10219.0	13631.2	13662.0	13415.6	13622.4
72.5°	1311.2	1357.4	1654.4	2261.6	3522.2	7436.0	11393.8	11723.8	11567.6	11169.4
75°	844.8	871.2	1082.4	1346.4	1733.6	4235.0	8417.2	8637.2	8278.6	6908.0
77.5°	473.0	501.6	653.4	818.4	844.8	1762.2	4727.8	5000.6	4237.2	2934.8
80°	294.8	332.2	492.8	486.2	402.6	646.8	1949.2	2087.8	1694.0	1009.8
82.5°	222.2	250.8	380.6	341.0	226.6	288.2	730.4	783.2	620.4	389.4
85°	151.8	191.4	275.0	211.2	118.8	138.6	290.4	312.4	283.8	189.2
87.5°	55.0	81.4	143.0	105.6	52.8	41.8	94.6	105.6	101.2	85.8
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°
2919.4	0°	2919.4	2919.4	2919.4	2919.4	2919.4	2919.4	2919.4	2919.4	2919.4	2919.4
2945.8	2.5°	2987.6	3018.4	3033.8	3124.0	3161.4	3154.8	3163.6	3176.8	3190.0	3207.6
2983.2	5°	3011.8	3106.4	3157.0	3262.6	3333.0	3302.2	3341.8	3330.8	3315.4	3313.2
3051.4	7.5°	3091.0	3212.0	3363.8	3392.4	3423.2	3346.2	3280.2	3190.0	3168.0	3091.0
3108.6	10°	3231.8	3330.8	3515.6	3526.6	3390.2	3192.2	3044.8	2857.8	2855.6	2743.4
3196.6	12.5°	3366.0	3478.2	3627.8	3564.0	3238.4	2967.8	2728.0	2523.4	2437.6	2380.4
3249.4	15°	3449.6	3634.4	3713.6	3438.6	2972.2	2607.0	2296.8	2076.8	1988.8	1947.0
3315.4	17.5°	3526.6	3784.0	3748.8	3218.6	2644.4	2235.2	1865.6	1674.2	1650.0	1619.2
3421.0	20°	3632.2	3839.0	3623.4	2932.6	2272.6	1755.6	1520.2	1427.8	1449.8	1463.0
3432.0	22.5°	3731.2	3867.6	3465.0	2620.2	1795.2	1390.4	1273.8	1293.6	1326.6	1370.6
3458.4	25°	3775.2	3913.8	3251.6	2189.0	1366.2	1170.4	1144.0	1177.0	1232.0	1234.2
3495.8	27.5°	3803.8	3880.8	2994.2	1768.8	1080.2	1023.0	1062.6	1086.8	1093.4	1119.8
3575.0	30°	3854.4	3812.6	2668.6	1265.0	906.4	908.6	959.2	959.2	959.2	979.0
3654.2	32.5°	3942.4	3766.4	2288.0	924.0	781.0	851.4	838.2	833.8	825.0	800.8
3755.4	35°	3997.4	3641.0	1806.2	684.2	701.8	781.0	776.6	708.4	594.0	536.8
4012.8	37.5°	4111.8	3577.2	1328.8	528.0	655.6	745.8	721.6	556.6	431.2	376.2
4331.8	40°	4358.2	3535.4	919.6	462.0	624.8	728.2	644.6	475.2	330.0	233.2
4824.6	42.5°	4659.6	3537.6	624.8	435.6	627.0	765.6	620.4	407.0	233.2	187.0
5482.4	45°	5064.4	3504.6	429.0	435.6	666.6	827.2	635.8	369.6	226.6	237.6
6307.4	47.5°	5500.0	3533.2	319.0	396.0	673.2	829.4	580.8	363.0	217.8	275.0
7205.0	50°	6008.2	3561.8	264.0	365.2	675.4	803.0	534.6	354.2	226.6	290.4
8234.6	52.5°	6531.8	3652.0	224.4	345.4	701.8	792.0	534.6	367.4	226.6	253.0
9545.8	55°	7312.8	3883.0	323.4	431.2	798.6	864.6	657.8	514.8	316.8	325.6
10802.0	57.5°	8175.2	4120.6	360.8	453.2	820.6	778.8	708.4	567.6	334.4	336.6
11778.8	60°	8742.8	4129.4	358.6	442.2	767.8	673.2	693.0	598.4	341.0	288.2
12383.8	62.5°	8969.4	3861.0	374.0	442.2	715.0	629.2	710.6	644.6	352.0	360.8
12555.4	65°	8712.0	3306.6	360.8	396.0	629.2	563.2	715.0	653.4	385.0	363.0
12247.4	67°	8309.4	2849.0	367.4	376.2	585.2	534.6	752.4	686.4	446.6	435.6
12086.8	67.5°	8195.0	2728.0	365.2	365.2	569.8	525.8	761.2	686.4	455.4	451.0
10667.8	70°	7222.6	2211.0	374.0	360.8	503.8	499.4	809.6	723.8	523.6	528.0
7836.4	72.5°	5497.8	1676.4	371.8	360.8	437.8	477.4	816.2	748.0	569.8	528.0
4389.0	75°	3124.0	1003.2	327.8	314.6	345.4	415.8	763.4	712.8	554.4	473.0
1753.4	77.5°	1291.4	517.0	301.4	283.8	286.0	338.8	635.8	664.4	528.0	402.6
585.2	80°	481.8	310.2	242.0	226.6	220.0	248.6	453.2	530.2	451.0	330.0
257.4	82.5°	250.8	193.6	165.0	165.0	149.6	158.4	244.2	352.0	341.0	226.6
103.4	85°	127.6	110.0	94.6	92.4	83.6	74.8	123.2	209.0	195.8	125.4
46.2	87.5°	68.2	61.6	39.6	37.4	30.8	19.8	22.0	41.8	68.2	55.0
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>
2919.4
3225.2
3333.0
3117.4
2739.0
2367.2
1938.2
1634.6
1447.6
1346.4
1256.2
1144.0
1001.0
787.6
563.2
374.0
226.6
182.6
242.0
305.8
336.6
259.6
343.2
325.6
297.0
365.2
356.4
429.0
442.2
488.4
468.6
422.4
380.6
301.4
178.2
103.4
39.6
0.0

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