

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: P477786

Luminaire Tested: **IFLD-M-SA4A-740-U-T3R**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477786  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4A-740-U-T3R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

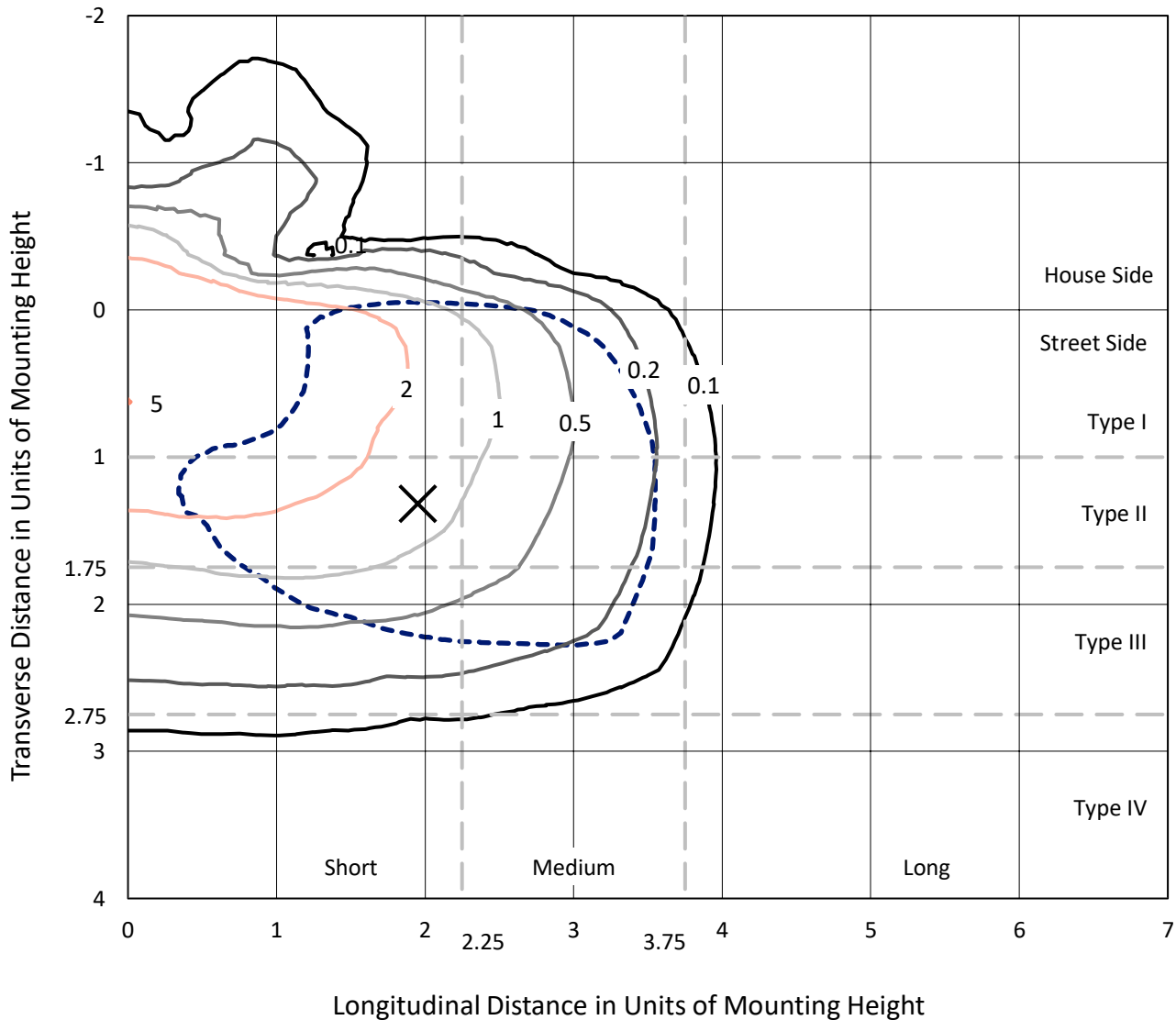
Lumens per Lamp: N/A  
Luminaire Lumens: 18140.4 lumens  
Efficiency: N/A  
Efficacy: 141.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 128.6  
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

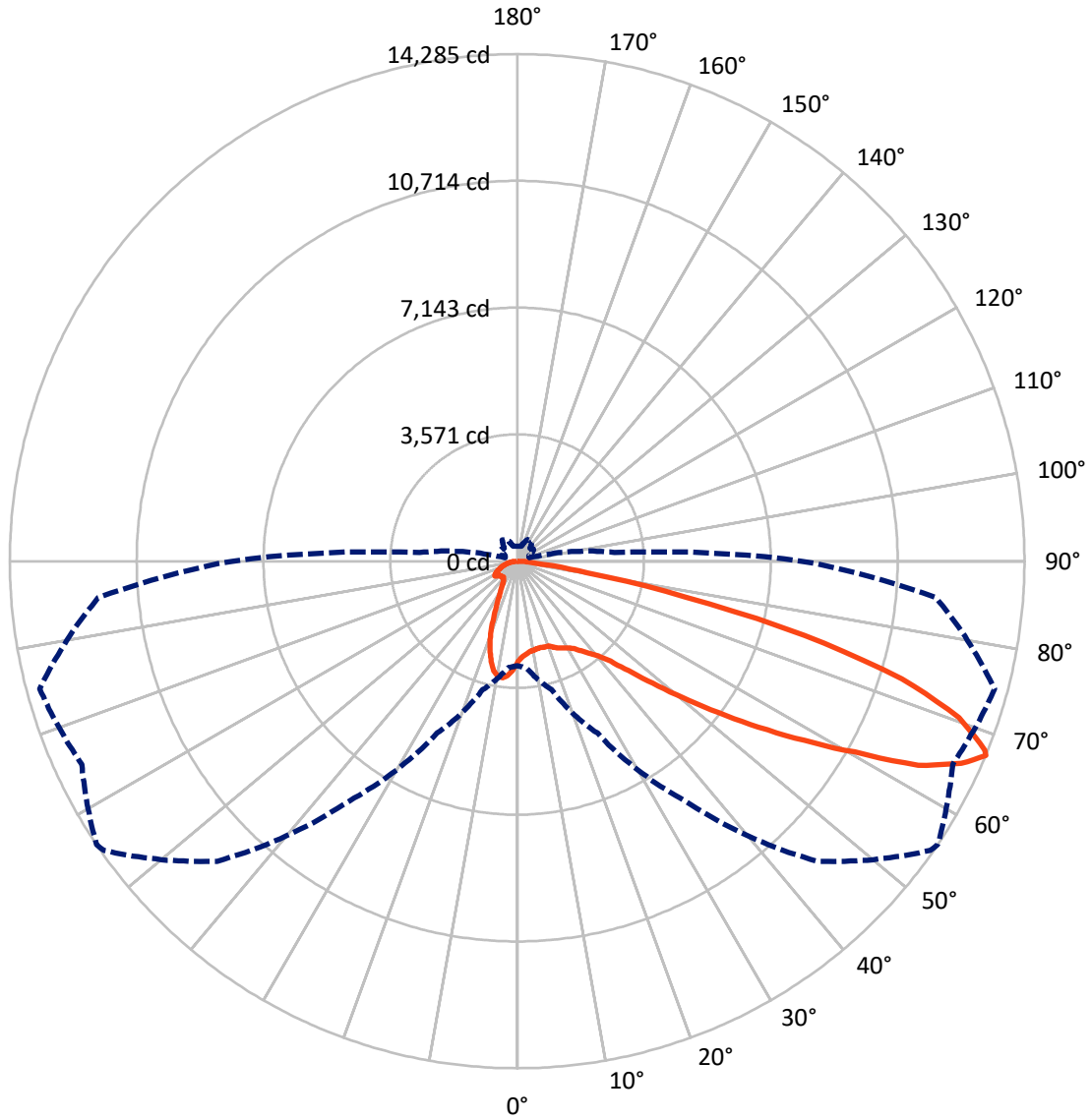
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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	2871.8	0.0	2871.8
	% Fixture	15.8	0.0	15.8
<b>Street Side</b>	Lumens	15268.6	0.0	15268.6
	% Fixture	84.2	0.0	84.2
<b>Total</b>	Lumens	18140.4	0.0	18140.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	271.9	1.5
10°-20°	741.8	4.1
20°-30°	1163.4	6.4
30°-40°	1660.8	9.2
40°-50°	2506.6	13.8
50°-60°	3990.1	22.0
60°-70°	5101.0	28.1
70°-80°	2487.1	13.7
80°-90°	217.6	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°	18140.4	100.0
0°-180°	18140.4	100.0

**Coefficient of Utilization**



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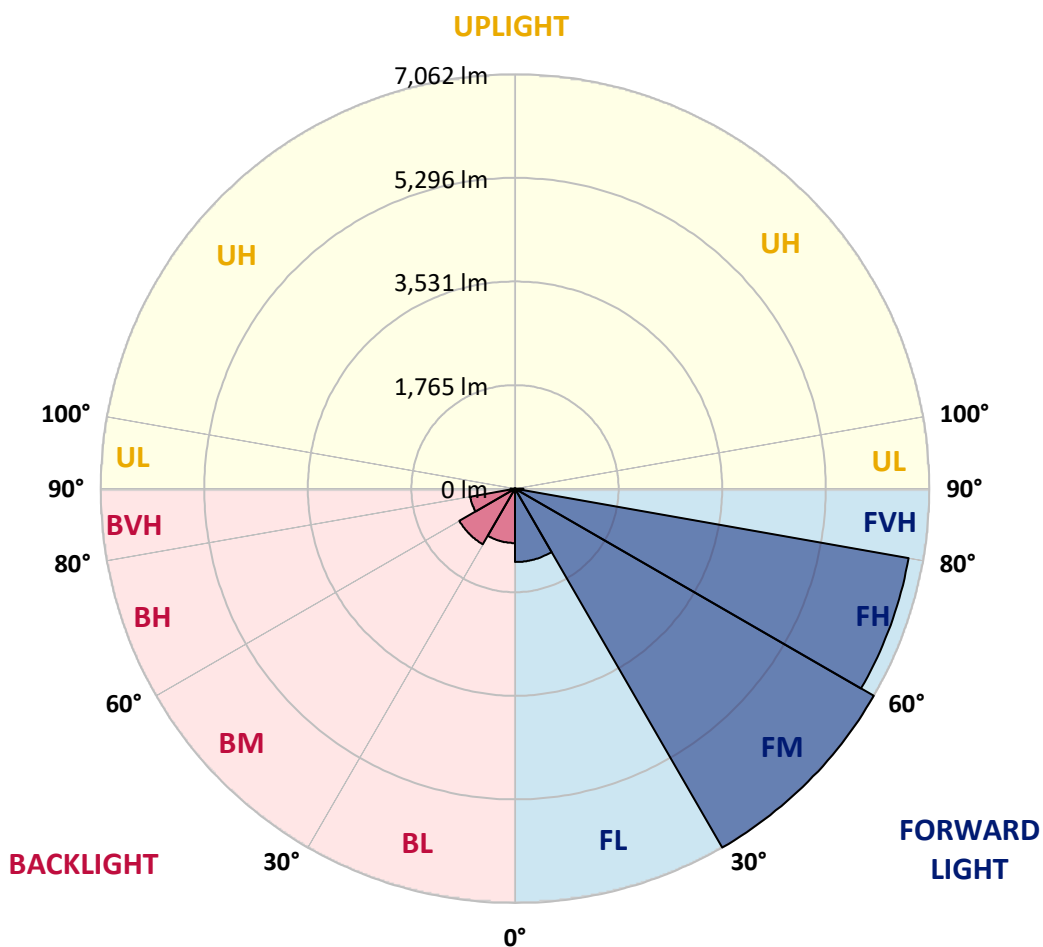
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1250.1	6.9			
FM (30°-60°)	7061.9	38.9			
FH (60°-80°)	6812.1	37.6			G3/7500
FVH (80°-90°)	144.5	0.8			G2/225
BL (0°-30°)	927.1	5.1	B2/1000		
BM (30°-60°)	1095.6	6.0	B2/2500		
BH (60°-80°)	776.0	4.3	B2/1000		G2/1000
BVH (80°-90°)	73.1	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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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	2822.6	2822.6	2822.6	2822.6	2822.6	2822.6	2822.6	2822.6	2822.6	2822.6
2.5°	2592.9	2582.2	2595.0	2582.2	2639.7	2673.7	2684.3	2699.2	2752.4	2803.5
5°	2484.4	2437.6	2488.7	2505.7	2509.9	2567.4	2626.9	2637.5	2665.2	2748.2
7.5°	2303.6	2356.8	2337.6	2388.7	2441.9	2499.3	2597.1	2569.5	2671.6	2750.3
10°	2265.3	2269.6	2290.8	2310.0	2356.8	2431.2	2567.4	2550.3	2654.6	2822.6
12.5°	2303.6	2303.6	2297.2	2282.3	2335.5	2407.8	2516.3	2524.8	2688.6	2843.9
15°	2437.6	2463.1	2395.1	2405.7	2384.4	2407.8	2503.5	2522.7	2701.4	2860.9
17.5°	2765.2	2756.7	2675.8	2563.1	2469.5	2454.6	2520.6	2541.8	2688.6	2909.8
20°	3084.2	3067.2	2926.8	2809.8	2624.8	2537.6	2548.2	2550.3	2709.9	2941.7
22.5°	3439.5	3484.1	3331.0	3092.7	2863.0	2646.1	2603.5	2637.5	2758.8	2958.7
25°	3996.7	3901.0	3769.1	3456.5	3086.4	2814.1	2695.0	2712.0	2805.6	3001.3
27.5°	4398.8	4360.5	4154.1	3901.0	3399.0	2946.0	2743.9	2775.8	2890.7	2999.1
30°	4785.9	4785.9	4660.4	4281.8	3728.7	3167.2	2848.1	2833.2	2850.3	2994.9
32.5°	5238.9	5177.3	4996.5	4745.5	4143.5	3369.3	2931.1	2935.3	2935.3	3073.6
35°	5477.2	5577.1	5455.9	5047.5	4460.4	3705.3	3131.0	3099.1	3075.7	3160.8
37.5°	5826.0	5885.6	5757.9	5517.6	4853.9	3977.6	3307.6	3282.0	3145.9	3228.9
40°	6036.6	6026.0	6021.7	5911.1	5375.1	4298.8	3567.1	3501.1	3318.2	3469.2
42.5°	6155.7	6134.4	6396.1	6328.0	5866.4	4771.0	3892.5	3856.4	3654.3	3896.8
45°	6289.7	6447.1	6661.9	6853.4	6438.6	5434.6	4443.4	4392.4	4211.6	4520.0
47.5°	6406.7	6600.3	6874.6	7078.8	6955.5	6155.7	5124.1	5136.8	5017.7	5334.7
50°	6602.4	6621.5	6993.8	7406.4	7502.1	6821.5	6038.7	6017.4	5964.3	6408.8
52.5°	6542.8	6600.3	7070.3	7597.8	7755.2	7525.5	7021.4	7085.2	7015.0	7574.4
55°	5572.9	5745.2	7023.5	7799.9	8355.1	8321.0	8284.9	8242.3	8238.1	8884.7
57.5°	5132.6	5273.0	6187.6	8023.3	8997.4	9248.4	9482.4	9529.2	9527.1	10307.7
60°	4843.3	4987.9	5849.4	7902.0	9544.1	10463.0	10911.8	10918.2	10905.4	11828.6
62.5°	4277.5	4417.9	5264.5	7238.4	9695.1	11583.9	12583.7	12666.6	12081.7	13138.8
65°	3596.9	3711.7	4458.3	6223.8	9293.1	12296.5	13840.8	13742.9	13072.9	13887.6
67°	2941.7	3018.3	3745.7	5343.2	8242.3	11954.1	14204.5	14285.3	13530.2	13919.5
67.5°	2754.5	2824.7	3511.8	5043.3	7842.5	11694.6	14217.2	14204.5	13538.7	13925.8
70°	1912.2	1942.0	2392.9	3469.2	5777.1	9880.2	13179.2	13209.0	12970.8	13170.7
72.5°	1267.7	1312.4	1599.5	2186.6	3405.4	7189.5	11016.0	11335.1	11184.1	10799.1
75°	816.8	842.3	1046.5	1301.8	1676.1	4094.6	8138.1	8350.8	8004.1	6679.0
77.5°	457.3	485.0	631.7	791.3	816.8	1703.8	4571.0	4834.8	4096.7	2837.5
80°	285.0	321.2	476.5	470.1	389.3	625.4	1884.6	2018.6	1637.8	976.3
82.5°	214.8	242.5	368.0	329.7	219.1	278.6	706.2	757.2	599.8	376.5
85°	146.8	185.1	265.9	204.2	114.9	134.0	280.8	302.0	274.4	182.9
87.5°	53.2	78.7	138.3	102.1	51.0	40.4	91.5	102.1	97.8	83.0
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°
2822.6	0°	2822.6	2822.6	2822.6	2822.6	2822.6	2822.6	2822.6	2822.6	2822.6	2822.6
2848.1	2.5°	2888.5	2918.3	2933.2	3020.4	3056.6	3050.2	3058.7	3071.5	3084.2	3101.2
2884.3	5°	2911.9	3003.4	3052.3	3154.4	3222.5	3192.7	3231.0	3220.4	3205.5	3203.3
2950.2	7.5°	2988.5	3105.5	3252.3	3279.9	3309.7	3235.3	3171.4	3084.2	3063.0	2988.5
3005.5	10°	3124.6	3220.4	3399.0	3409.7	3277.8	3086.4	2943.8	2763.0	2760.9	2652.4
3090.6	12.5°	3254.4	3362.9	3507.5	3445.8	3131.0	2869.4	2637.5	2439.7	2356.8	2301.5
3141.7	15°	3335.2	3513.9	3590.5	3324.6	2873.7	2520.6	2220.6	2007.9	1922.9	1882.4
3205.5	17.5°	3409.7	3658.5	3624.5	3111.9	2556.7	2161.1	1803.7	1618.7	1595.3	1565.5
3307.6	20°	3511.8	3711.7	3503.3	2835.4	2197.2	1697.4	1469.8	1380.5	1401.7	1414.5
3318.2	22.5°	3607.5	3739.4	3350.1	2533.3	1735.7	1344.3	1231.6	1250.7	1282.6	1325.2
3343.7	25°	3650.0	3784.0	3143.8	2116.4	1320.9	1131.6	1106.1	1138.0	1191.2	1193.3
3379.9	27.5°	3677.7	3752.1	2894.9	1710.2	1044.4	989.1	1027.4	1050.8	1057.1	1082.7
3456.5	30°	3726.6	3686.2	2580.1	1223.1	876.3	878.5	927.4	927.4	927.4	946.5
3533.0	32.5°	3811.7	3641.5	2212.1	893.4	755.1	823.2	810.4	806.2	797.6	774.2
3630.9	35°	3864.9	3520.3	1746.3	661.5	678.5	755.1	750.9	684.9	574.3	519.0
3879.8	37.5°	3975.5	3458.6	1284.7	510.5	633.9	721.1	697.7	538.1	416.9	363.7
4188.2	40°	4213.7	3418.2	889.1	446.7	604.1	704.1	623.2	459.4	319.1	225.5
4664.6	42.5°	4505.1	3420.3	604.1	421.2	606.2	740.2	599.8	393.5	225.5	180.8
5300.6	45°	4896.5	3388.4	414.8	421.2	644.5	799.8	614.7	357.3	219.1	229.7
6098.3	47.5°	5317.6	3416.1	308.4	382.9	650.9	801.9	561.5	351.0	210.6	265.9
6966.1	50°	5809.0	3443.7	255.2	353.1	653.0	776.4	516.9	342.5	219.1	280.8
7961.6	52.5°	6315.2	3530.9	217.0	333.9	678.5	765.7	516.9	355.2	219.1	244.6
9229.3	55°	7070.3	3754.3	312.7	416.9	772.1	835.9	636.0	497.7	306.3	314.8
10443.8	57.5°	7904.1	3984.0	348.8	438.2	793.4	753.0	684.9	548.8	323.3	325.4
11388.3	60°	8452.9	3992.5	346.7	427.5	742.3	650.9	670.0	578.6	329.7	278.6
11973.2	62.5°	8672.0	3733.0	361.6	427.5	691.3	608.3	687.0	623.2	340.3	348.8
12139.1	65°	8423.1	3197.0	348.8	382.9	608.3	544.5	691.3	631.7	372.2	351.0
11841.3	67°	8033.9	2754.5	355.2	363.7	565.8	516.9	727.5	663.6	431.8	421.2
11686.0	67.5°	7923.3	2637.5	353.1	353.1	550.9	508.4	736.0	663.6	440.3	436.0
10314.1	70°	6983.1	2137.7	361.6	348.8	487.1	482.8	782.8	699.8	506.2	510.5
7576.6	72.5°	5315.5	1620.8	359.5	348.8	423.3	461.6	789.1	723.2	550.9	510.5
4243.5	75°	3020.4	969.9	316.9	304.2	333.9	402.0	738.1	689.2	536.0	457.3
1695.3	77.5°	1248.6	499.9	291.4	274.4	276.5	327.6	614.7	642.4	510.5	389.3
565.8	80°	465.8	299.9	234.0	219.1	212.7	240.4	438.2	512.6	436.0	319.1
248.9	82.5°	242.5	187.2	159.5	159.5	144.6	153.1	236.1	340.3	329.7	219.1
100.0	85°	123.4	106.4	91.5	89.3	80.8	72.3	119.1	202.1	189.3	121.2
44.7	87.5°	65.9	59.6	38.3	36.2	29.8	19.1	21.3	40.4	65.9	53.2
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>
2822.6
3118.3
3222.5
3014.0
2648.2
2288.7
1873.9
1580.4
1399.6
1301.8
1214.5
1106.1
967.8
761.5
544.5
361.6
219.1
176.5
234.0
295.7
325.4
251.0
331.8
314.8
287.2
353.1
344.6
414.8
427.5
472.2
453.1
408.4
368.0
291.4
172.3
100.0
38.3
0.0

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