

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: P477904

Luminaire Tested: **IFLD-M-SA4B-827-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477904
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-827-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (64) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

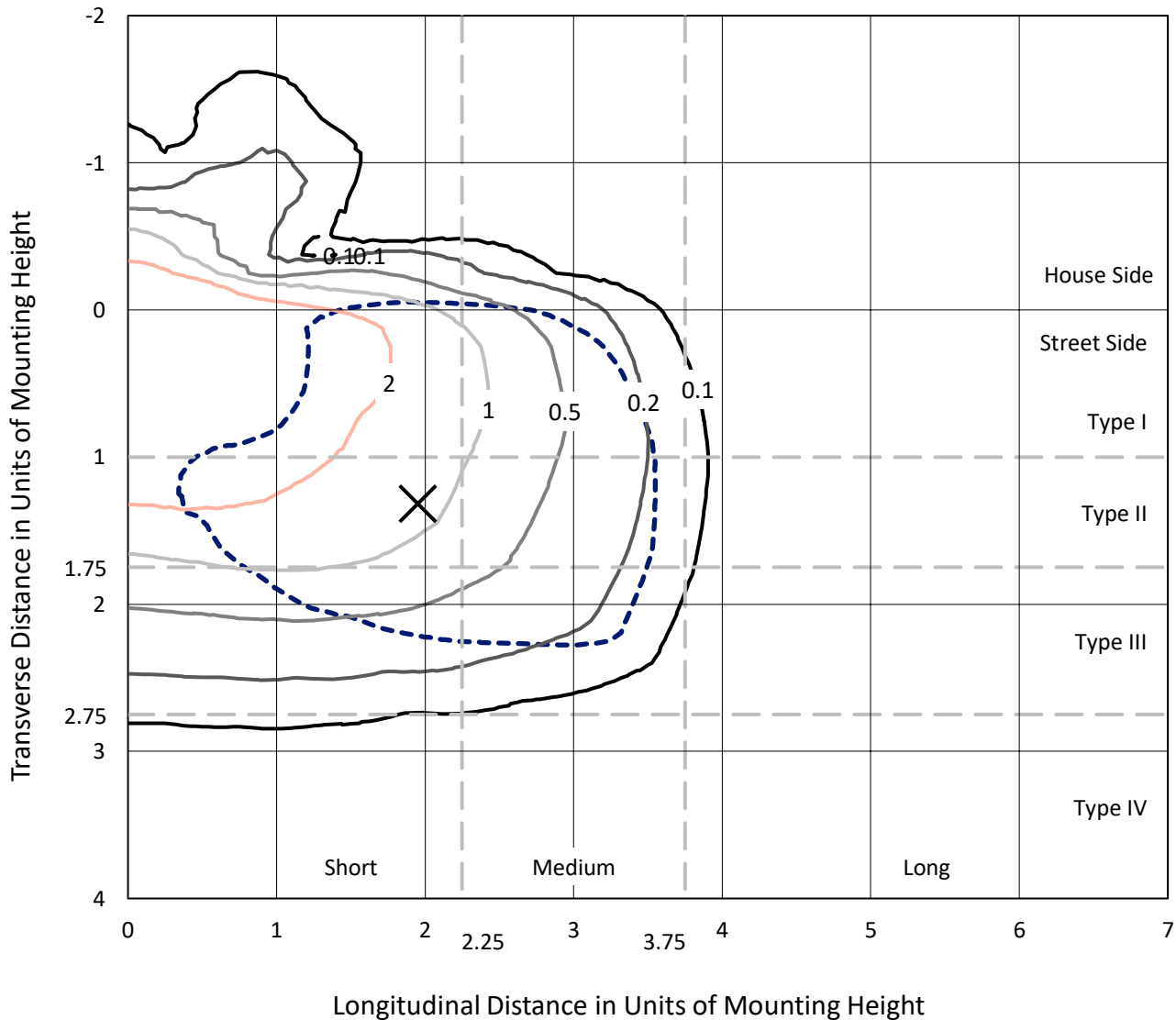
Lumens per Lamp: N/A
Luminaire Lumens: 16492.1 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

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

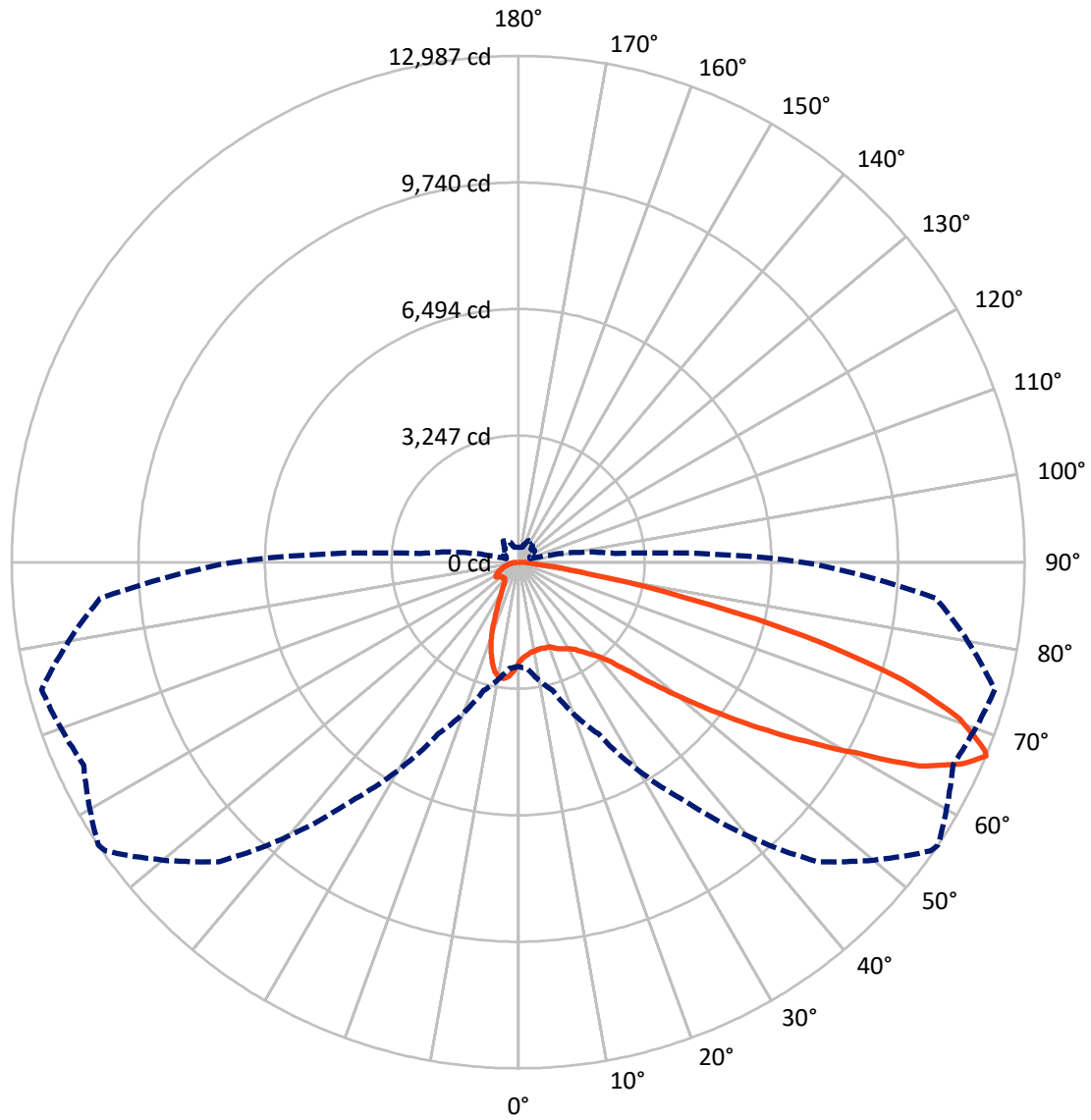
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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
House Side	Lumens	2610.9	0.0	2610.9
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	13881.2	0.0	13881.2
	% Fixture	84.2	0.0	84.2
Total	Lumens	16492.1	0.0	16492.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.2	1.5
10°-20°	674.4	4.1
20°-30°	1057.7	6.4
30°-40°	1509.9	9.2
40°-50°	2278.9	13.8
50°-60°	3627.5	22.0
60°-70°	4637.5	28.1
70°-80°	2261.1	13.7
80°-90°	197.8	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°	16492.1	100.0
0°-180°	16492.1	100.0

Coefficient of Utilization

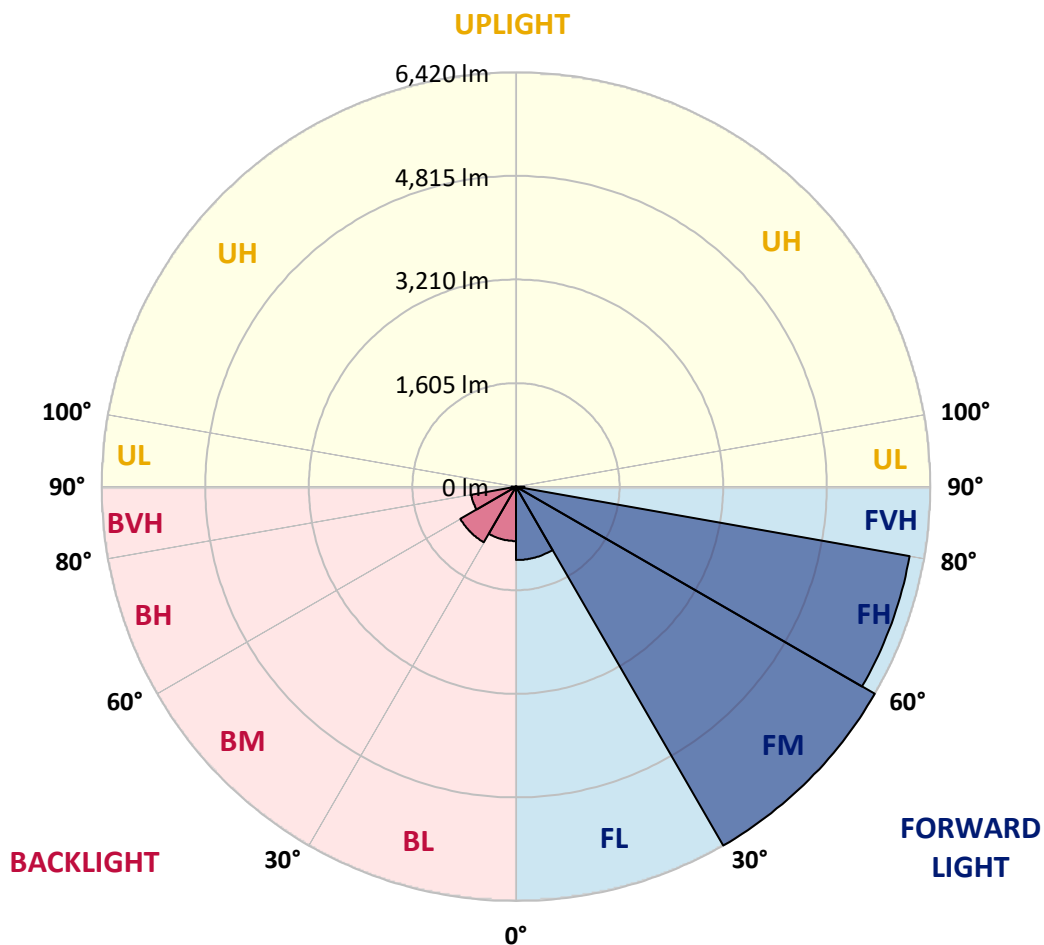


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1136.5	6.9			
FM (30°-60°)	6420.2	38.9			
FH (60°-80°)	6193.1	37.6			G3/7500
FVH (80°-90°)	131.4	0.8			G2/225
BL (0°-30°)	842.9	5.1	B2/1000		
BM (30°-60°)	996.1	6.0	B1/1000		
BH (60°-80°)	705.5	4.3	B2/1000		G2/1000
BVH (80°-90°)	66.4	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°	2566.1	2566.1	2566.1	2566.1	2566.1	2566.1	2566.1	2566.1	2566.1	2566.1
2.5°	2357.3	2347.6	2359.2	2347.6	2399.8	2430.8	2440.4	2454.0	2502.3	2548.7
5°	2258.6	2216.1	2262.5	2278.0	2281.9	2334.1	2388.2	2397.9	2423.0	2498.4
7.5°	2094.3	2142.6	2125.2	2171.6	2220.0	2272.2	2361.1	2336.0	2428.8	2500.4
10°	2059.5	2063.3	2082.7	2100.1	2142.6	2210.3	2334.1	2318.6	2413.4	2566.1
12.5°	2094.3	2094.3	2088.5	2074.9	2123.3	2189.0	2287.7	2295.4	2444.3	2585.5
15°	2216.1	2239.3	2177.4	2187.1	2167.8	2189.0	2276.1	2293.5	2455.9	2600.9
17.5°	2513.9	2506.2	2432.7	2330.2	2245.1	2231.6	2291.5	2310.9	2444.3	2645.4
20°	2804.0	2788.5	2660.9	2554.5	2386.3	2307.0	2316.7	2318.6	2463.6	2674.4
22.5°	3126.9	3167.5	3028.3	2811.7	2602.9	2405.6	2366.9	2397.9	2508.1	2689.9
25°	3633.6	3546.5	3426.6	3142.4	2805.9	2558.4	2450.1	2465.6	2550.6	2728.6
27.5°	3999.0	3964.2	3776.7	3546.5	3090.2	2678.3	2494.6	2523.6	2628.0	2726.6
30°	4351.0	4351.0	4236.9	3892.7	3389.9	2879.4	2589.3	2575.8	2591.3	2722.8
32.5°	4762.9	4706.8	4542.4	4314.3	3767.0	3063.1	2664.7	2668.6	2668.6	2794.3
35°	4979.5	5070.4	4960.1	4588.8	4055.1	3368.6	2846.5	2817.5	2796.2	2873.6
37.5°	5296.6	5350.8	5234.7	5016.2	4412.9	3616.2	3007.0	2983.8	2860.1	2935.5
40°	5488.1	5478.4	5474.5	5374.0	4886.7	3908.2	3242.9	3183.0	3016.7	3154.0
42.5°	5596.3	5577.0	5814.9	5753.0	5333.4	4337.5	3538.8	3505.9	3322.2	3542.7
45°	5718.2	5861.3	6056.6	6230.6	5853.5	4940.8	4039.7	3993.2	3828.9	4109.3
47.5°	5824.5	6000.5	6250.0	6435.6	6323.4	5596.3	4658.5	4670.1	4561.8	4849.9
50°	6002.4	6019.8	6358.3	6733.4	6820.4	6201.6	5490.0	5470.7	5422.3	5826.5
52.5°	5948.3	6000.5	6427.9	6907.4	7050.5	6841.7	6383.4	6441.4	6377.6	6886.2
55°	5066.5	5223.1	6385.3	7091.2	7595.9	7564.9	7532.1	7493.4	7489.5	8077.4
57.5°	4666.2	4793.8	5625.4	7294.2	8179.9	8408.1	8620.8	8663.3	8661.4	9371.1
60°	4403.2	4534.7	5317.9	7184.0	8676.8	9512.2	9920.3	9926.1	9914.5	10753.7
62.5°	3888.8	4016.5	4786.1	6580.6	8814.1	10531.3	11440.2	11515.6	10983.8	11944.9
65°	3270.0	3374.4	4053.2	5658.2	8448.7	11179.2	12583.1	12494.1	11885.0	12625.6
67°	2674.4	2744.0	3405.4	4857.6	7493.4	10867.8	12913.8	12987.2	12300.7	12654.6
67.5°	2504.2	2568.1	3192.7	4585.0	7129.8	10631.9	12925.4	12913.8	12308.5	12660.4
70°	1738.5	1765.5	2175.5	3154.0	5252.1	8982.4	11981.7	12008.7	11792.2	11973.9
72.5°	1152.5	1193.1	1454.2	1987.9	3096.0	6536.2	10015.0	10305.1	10167.8	9817.8
75°	742.6	765.8	951.4	1183.5	1523.8	3722.5	7398.6	7592.0	7276.8	6072.1
77.5°	415.8	440.9	574.3	719.4	742.6	1549.0	4155.7	4395.5	3724.5	2579.7
80°	259.1	292.0	433.2	427.4	353.9	568.5	1713.3	1835.2	1489.0	887.6
82.5°	195.3	220.5	334.5	299.7	199.2	253.3	642.0	688.4	545.3	342.3
85°	133.4	168.2	241.7	185.6	104.4	121.8	255.3	274.6	249.5	166.3
87.5°	48.3	71.5	125.7	92.8	46.4	36.7	83.2	92.8	89.0	75.4
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°
2566.1	0°	2566.1	2566.1	2566.1	2566.1	2566.1	2566.1	2566.1	2566.1	2566.1	2566.1
2589.3	2.5°	2626.1	2653.1	2666.7	2746.0	2778.8	2773.0	2780.8	2792.4	2804.0	2819.4
2622.2	5°	2647.3	2730.5	2775.0	2867.8	2929.7	2902.6	2937.4	2927.7	2914.2	2912.3
2682.1	7.5°	2717.0	2823.3	2956.7	2981.9	3009.0	2941.3	2883.3	2804.0	2784.6	2717.0
2732.4	10°	2840.7	2927.7	3090.2	3099.8	2979.9	2805.9	2676.3	2512.0	2510.0	2411.4
2809.8	12.5°	2958.7	3057.3	3188.8	3132.7	2846.5	2608.7	2397.9	2218.0	2142.6	2092.3
2856.2	15°	3032.2	3194.6	3264.2	3022.5	2612.5	2291.5	2018.9	1825.5	1748.1	1711.4
2914.2	17.5°	3099.8	3326.1	3295.2	2829.1	2324.4	1964.7	1639.8	1471.6	1450.3	1423.3
3007.0	20°	3192.7	3374.4	3184.9	2577.7	1997.6	1543.2	1336.2	1255.0	1274.4	1286.0
3016.7	22.5°	3279.7	3399.6	3045.7	2303.1	1578.0	1222.1	1119.7	1137.1	1166.1	1204.7
3039.9	25°	3318.4	3440.2	2858.1	1924.1	1200.9	1028.8	1005.6	1034.6	1082.9	1084.8
3072.8	27.5°	3343.5	3411.2	2631.9	1554.8	949.5	899.2	934.0	955.3	961.1	984.3
3142.4	30°	3388.0	3351.2	2345.7	1111.9	796.7	798.6	843.1	843.1	843.1	860.5
3212.0	32.5°	3465.3	3310.6	2011.1	812.2	686.5	748.4	736.8	732.9	725.2	703.9
3301.0	35°	3513.7	3200.4	1587.6	601.4	616.9	686.5	682.6	622.7	522.1	471.8
3527.2	37.5°	3614.2	3144.3	1168.0	464.1	576.3	655.5	634.3	489.2	379.0	330.7
3807.6	40°	3830.8	3107.6	808.3	406.1	549.2	640.1	566.6	417.7	290.1	205.0
4240.8	42.5°	4095.7	3109.5	549.2	382.9	551.1	673.0	545.3	357.7	205.0	164.4
4819.0	45°	4451.6	3080.5	377.1	382.9	585.9	727.1	558.9	324.9	199.2	208.8
5544.1	47.5°	4834.4	3105.6	280.4	348.1	591.7	729.0	510.5	319.1	191.4	241.7
6333.1	50°	5281.1	3130.8	232.1	321.0	593.7	705.8	469.9	311.3	199.2	255.3
7238.1	52.5°	5741.4	3210.1	197.2	303.6	616.9	696.2	469.9	322.9	199.2	222.4
8390.7	55°	6427.9	3413.1	284.3	379.0	702.0	760.0	578.2	452.5	278.5	286.2
9494.8	57.5°	7185.9	3622.0	317.1	398.4	721.3	684.6	622.7	498.9	293.9	295.9
10353.4	60°	7684.8	3629.7	315.2	388.7	674.9	591.7	609.1	526.0	299.7	253.3
10885.2	62.5°	7884.0	3393.8	328.7	388.7	628.5	553.1	624.6	566.6	309.4	317.1
11036.1	65°	7657.7	2906.5	317.1	348.1	553.1	495.0	628.5	574.3	338.4	319.1
10765.3	67°	7303.9	2504.2	322.9	330.7	514.4	469.9	661.4	603.3	392.6	382.9
10624.2	67.5°	7203.3	2397.9	321.0	321.0	500.8	462.2	669.1	603.3	400.3	396.4
9376.9	70°	6348.6	1943.4	328.7	317.1	442.8	439.0	711.6	636.2	460.2	464.1
6888.1	72.5°	4832.5	1473.5	326.8	317.1	384.8	419.6	717.4	657.5	500.8	464.1
3857.9	75°	2746.0	881.8	288.1	276.5	303.6	365.5	671.0	626.5	487.3	415.8
1541.2	77.5°	1135.1	454.4	264.9	249.5	251.4	297.8	558.9	584.0	464.1	353.9
514.4	80°	423.5	272.7	212.7	199.2	193.4	218.5	398.4	466.0	396.4	290.1
226.3	82.5°	220.5	170.2	145.0	145.0	131.5	139.2	214.6	309.4	299.7	199.2
90.9	85°	112.2	96.7	83.2	81.2	73.5	65.7	108.3	183.7	172.1	110.2
40.6	87.5°	59.9	54.1	34.8	32.9	27.1	17.4	19.3	36.7	59.9	48.3
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



180°
2566.1
2834.9
2929.7
2740.2
2407.6
2080.7
1703.7
1436.8
1272.4
1183.5
1104.2
1005.6
879.9
692.3
495.0
328.7
199.2
160.5
212.7
268.8
295.9
228.2
301.7
286.2
261.1
321.0
313.3
377.1
388.7
429.3
411.9
371.3
334.5
264.9
156.6
90.9
34.8
0.0

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