

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: P477536

Luminaire Tested: **IFLD-S-SA3E-830-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477536
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3E-830-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

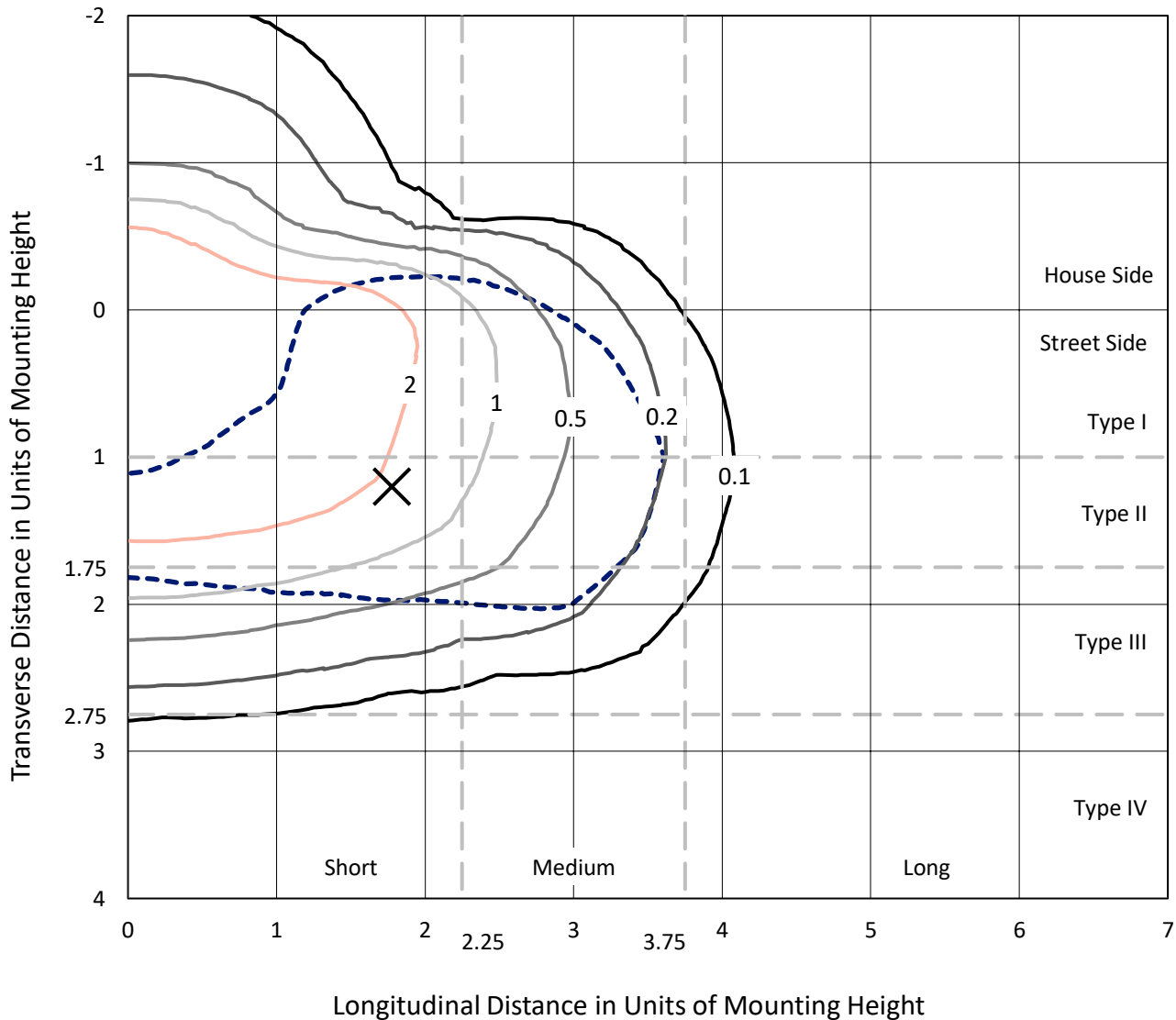
Lumens per Lamp: N/A
Luminaire Lumens: 21830 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 232.1
Input Voltage (V): 120
Input Current (A_{in}): 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

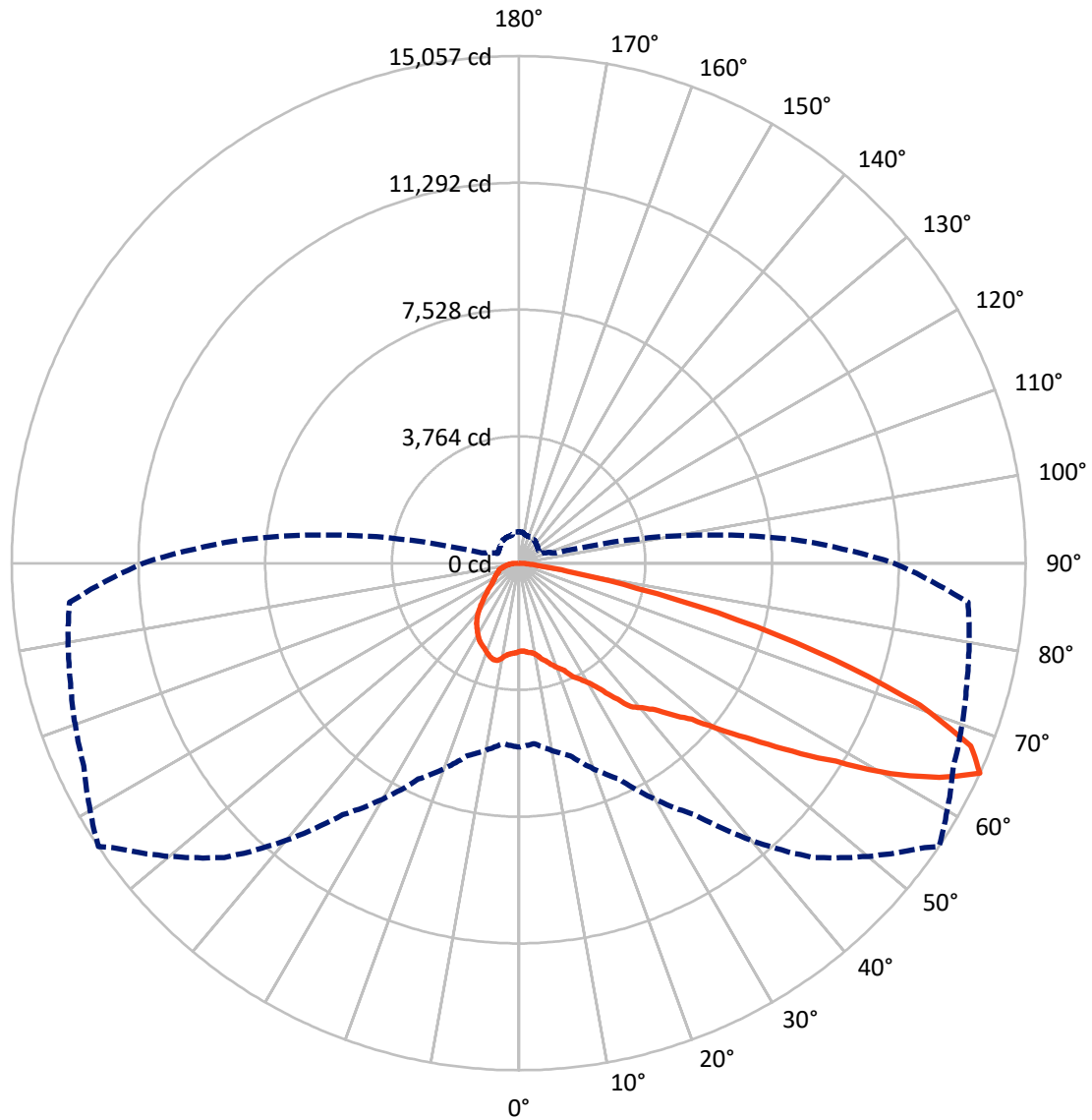
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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
House Side	Lumens	4895.8	0.0	4895.8
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	16934.2	0.0	16934.2
	% Fixture	77.6	0.0	77.6
Total	Lumens	21830.0	0.0	21830.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.7	1.2
10°-20°	843.1	3.9
20°-30°	1501.3	6.9
30°-40°	2248.1	10.3
40°-50°	3330.8	15.3
50°-60°	5132.3	23.5
60°-70°	5810.4	26.6
70°-80°	2411.4	11.0
80°-90°	292.9	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°	21830.0	100.0
0°-180°	21830.0	100.0

Coefficient of Utilization

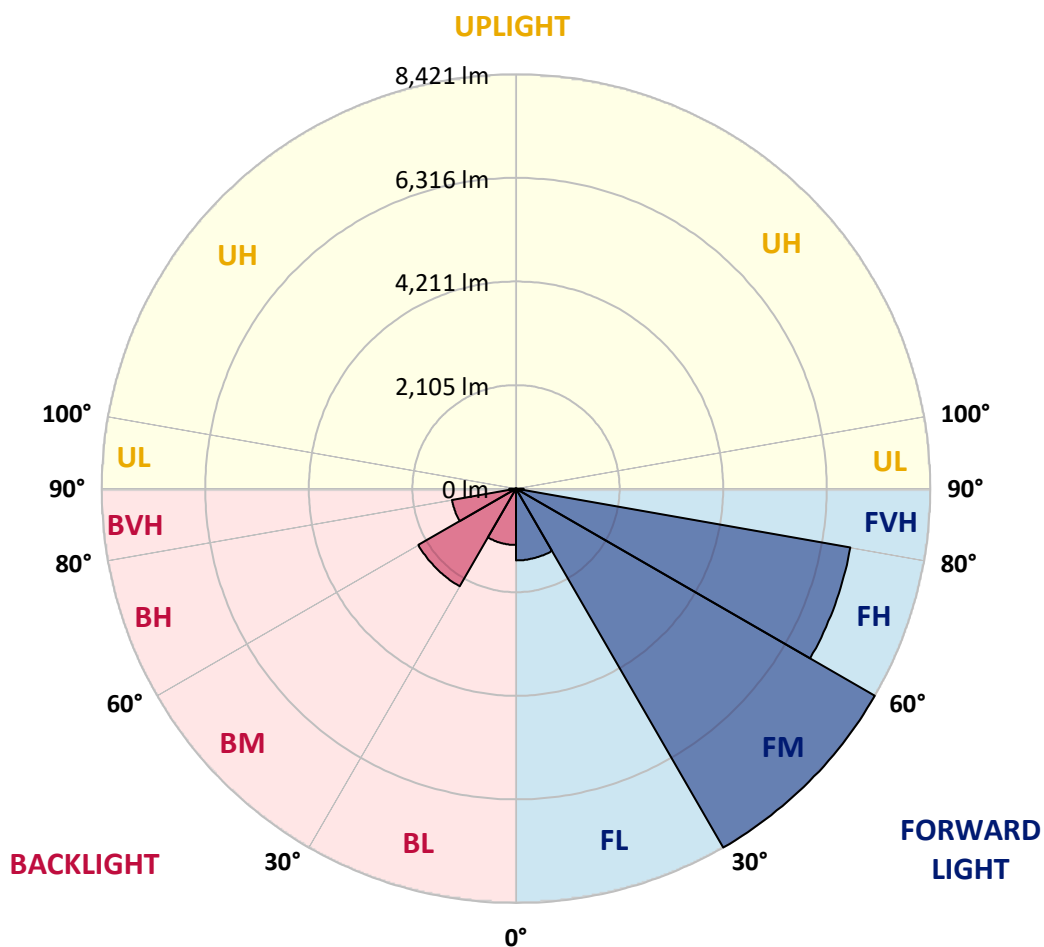


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1458.9	6.7			
FM (30°-60°)	8421.0	38.6			
FH (60°-80°)	6899.8	31.6			G3/7500
FVH (80°-90°)	154.5	0.7			G2/225
BL (0°-30°)	1145.2	5.2	B3/2500		
BM (30°-60°)	2290.1	10.5	B2/2500		
BH (60°-80°)	1322.0	6.1	B3/2500		G3/2500
BVH (80°-90°)	138.4	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-G3
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	2620.2	2620.2	2620.2	2620.2	2620.2	2620.2	2620.2	2620.2	2620.2	2620.2
2.5°	2551.7	2565.4	2556.3	2583.7	2606.5	2606.5	2624.8	2611.1	2629.4	2654.5
5°	2636.2	2581.4	2611.1	2624.8	2617.9	2629.4	2611.1	2656.8	2627.1	2675.0
7.5°	2656.8	2677.3	2702.5	2679.6	2700.2	2688.8	2691.0	2684.2	2668.2	2707.0
10°	2807.5	2777.8	2835.0	2800.7	2796.1	2791.6	2782.4	2748.1	2787.0	2789.3
12.5°	2981.2	2953.7	2951.5	2924.0	2960.6	2894.3	2908.1	2889.8	2896.6	2905.8
15°	3106.8	3095.4	3147.9	3115.9	3068.0	3038.3	3070.2	3020.0	3045.1	3040.6
17.5°	3355.8	3353.5	3314.7	3262.1	3234.7	3191.3	3184.5	3163.9	3182.2	3173.0
20°	3529.4	3554.5	3561.4	3499.7	3394.6	3346.7	3335.2	3319.2	3339.8	3333.0
22.5°	3794.4	3755.6	3785.3	3677.9	3639.1	3524.8	3483.7	3460.9	3559.1	3534.0
25°	3963.5	4004.6	3974.9	3938.3	3851.5	3709.9	3680.2	3730.4	3769.3	3741.9
27.5°	4344.9	4303.8	4276.4	4166.8	4109.7	3961.2	3926.9	3908.6	3917.8	3933.8
30°	4635.1	4657.9	4596.2	4518.6	4374.6	4223.9	4143.9	4127.9	4095.9	4068.5
32.5°	5048.5	5014.3	4977.7	4927.5	4804.1	4605.4	4527.7	4468.3	4372.4	4244.4
35°	5247.3	5345.5	5318.1	5183.3	5089.7	5014.3	4991.4	4900.1	4820.1	4619.1
37.5°	5578.5	5619.7	5580.8	5537.4	5494.0	5414.1	5386.6	5411.8	5254.1	4922.9
40°	5793.3	5880.1	5960.0	5839.0	5829.8	5845.8	5676.8	5647.1	5322.7	5149.1
42.5°	6231.9	6268.4	6284.4	6279.8	6332.4	6332.4	6010.3	5946.3	5715.6	5574.0
45°	6812.1	6841.8	6898.9	6940.0	6880.6	6910.3	6451.2	6426.0	6220.5	6193.0
47.5°	7314.7	7385.5	7513.4	7634.5	7712.2	7611.7	7109.1	6930.9	6878.4	7042.8
50°	7753.3	7668.8	7968.0	8091.4	8431.8	8598.5	7835.5	7764.7	7680.2	7995.4
52.5°	7796.7	7910.9	8333.5	8580.2	9281.6	9590.0	8726.4	8696.8	8594.0	8957.2
55°	8107.4	8093.7	8518.6	9053.1	9886.9	10405.5	9886.9	9868.7	9644.8	9989.7
57.5°	8054.8	8194.2	8530.0	9277.0	10432.9	11280.4	11232.4	11106.8	10793.8	11074.8
60°	7876.6	7913.2	8322.1	9270.1	10750.4	12178.2	12685.3	12710.5	12070.8	12294.7
62.5°	6866.9	6951.5	7470.0	8541.4	10524.3	12797.3	14104.0	14014.9	13503.2	13247.3
65°	5462.0	5377.5	5916.6	7074.8	9117.1	12358.7	14725.3	15056.6	14252.4	13784.1
67.5°	3348.9	3328.4	3846.9	4868.1	6821.3	10517.4	14229.6	14487.7	14044.6	13669.9
70°	1724.7	1672.2	1996.6	2716.2	4287.8	7716.7	12383.8	12637.4	13060.0	12260.4
72.5°	804.1	792.7	966.3	1336.4	2183.9	4536.8	9590.0	9772.7	10663.6	10337.0
75°	472.9	479.7	578.0	699.0	1064.5	2138.2	6364.4	6718.5	7684.8	7449.5
77.5°	354.1	354.1	411.2	486.6	621.4	827.0	3141.1	3609.4	4493.4	4041.1
80°	260.4	265.0	315.2	365.5	431.8	427.2	1247.3	1462.0	2060.5	1761.3
82.5°	203.3	210.2	244.4	271.8	303.8	258.1	511.7	550.5	847.5	673.9
85°	141.6	146.2	191.9	185.0	185.0	143.9	212.5	223.9	335.8	319.8
87.5°	34.3	38.8	93.7	102.8	77.7	43.4	66.2	75.4	121.1	139.3
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°
2620.2	0°	2620.2	2620.2	2620.2	2620.2	2620.2	2620.2	2620.2	2620.2	2620.2	2620.2
2665.9	2.5°	2631.6	2640.8	2679.6	2659.1	2670.5	2622.5	2661.3	2629.4	2656.8	2643.1
2686.5	5°	2704.7	2684.2	2707.0	2691.0	2691.0	2709.3	2736.7	2716.2	2757.3	2739.0
2702.5	7.5°	2734.4	2736.7	2750.4	2752.7	2741.3	2798.4	2800.7	2793.8	2832.7	2823.5
2812.1	10°	2807.5	2809.8	2835.0	2848.7	2837.2	2857.8	2835.0	2816.7	2814.4	2805.3
2898.9	12.5°	2924.0	2946.9	2942.3	2953.7	2956.0	2869.2	2816.7	2727.6	2716.2	2727.6
3026.8	15°	3031.4	3022.3	3026.8	3049.7	2953.7	2814.4	2720.7	2645.3	2649.9	2652.2
3193.6	17.5°	3159.3	3166.2	3173.0	3068.0	2892.1	2727.6	2645.3	2645.3	2622.5	2631.6
3310.1	20°	3305.5	3278.1	3218.7	3070.2	2784.7	2627.1	2601.9	2601.9	2574.5	2556.3
3435.8	22.5°	3419.8	3364.9	3275.8	2999.4	2688.8	2588.2	2526.6	2483.2	2451.2	2414.6
3575.1	25°	3492.9	3463.2	3289.6	2926.3	2617.9	2485.4	2394.1	2327.8	2286.7	2238.7
3684.8	27.5°	3604.8	3547.7	3328.4	2841.8	2540.3	2382.6	2241.0	2138.2	2060.5	2010.3
3851.5	30°	3755.6	3673.3	3301.0	2720.7	2421.5	2204.5	2037.7	1905.2	1816.1	1775.0
4009.1	32.5°	3878.9	3771.6	3278.1	2611.1	2289.0	2024.0	1802.4	1667.6	1617.4	1564.8
4274.1	35°	4114.2	3901.8	3262.1	2549.4	2170.2	1843.5	1610.5	1494.0	1430.0	1352.4
4431.8	37.5°	4294.7	4127.9	3223.3	2421.5	2017.1	1667.6	1464.3	1359.2	1263.3	1181.0
4797.3	40°	4578.0	4443.2	3225.6	2241.0	1836.7	1516.8	1350.1	1240.4	1119.4	1048.5
5338.7	42.5°	5110.2	4753.9	3239.3	2097.1	1633.4	1393.5	1247.3	1117.1	996.0	936.6
5955.5	45°	5763.6	5181.0	3154.8	1966.9	1425.5	1277.0	1123.9	993.7	916.0	872.6
6793.8	47.5°	6515.1	5599.1	3040.6	1722.4	1251.9	1153.6	1009.7	934.3	877.2	852.1
7874.4	50°	7355.8	6197.6	3008.6	1498.6	1117.1	1048.5	954.9	897.8	858.9	829.2
9092.0	52.5°	8438.6	6894.4	2944.6	1267.8	1000.6	964.0	934.3	895.5	861.2	836.1
10227.3	55°	9473.5	7666.5	2876.1	1078.2	918.3	922.9	938.9	904.6	874.9	836.1
11499.7	57.5°	10638.5	8454.6	2622.5	938.9	856.7	902.3	934.3	895.5	865.8	836.1
12801.8	60°	11358.1	8897.8	2126.8	817.8	801.8	863.5	906.9	865.8	833.8	845.2
13400.4	62.5°	11650.5	8664.8	1603.7	742.4	763.0	811.0	863.5	847.5	824.7	868.1
13393.5	65°	11152.5	8127.9	1146.8	678.5	710.5	758.4	824.7	842.9	849.8	934.3
12301.6	67.5°	9923.5	7077.1	842.9	625.9	655.6	726.4	852.1	881.8	877.2	982.3
10323.3	70°	7940.6	5535.1	657.9	582.5	635.1	751.6	890.9	890.9	858.9	982.3
7874.4	72.5°	5777.3	3901.8	566.5	532.3	582.5	689.9	886.4	884.1	842.9	897.8
5014.3	75°	3497.4	2270.7	500.3	482.0	500.3	591.7	847.5	833.8	776.7	772.1
2412.3	77.5°	1743.0	1142.2	408.9	427.2	436.3	495.7	744.7	765.3	687.6	669.3
952.6	80°	735.6	498.0	340.4	367.8	367.8	418.0	619.1	632.8	571.1	536.8
376.9	82.5°	335.8	285.6	290.1	319.8	299.3	324.4	491.1	507.1	463.7	406.6
159.9	85°	141.6	162.2	221.6	251.3	221.6	210.2	338.1	356.4	301.5	251.3
68.5	87.5°	64.0	89.1	139.3	182.8	111.9	98.2	180.5	187.3	150.8	111.9
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>
2620.2
2617.9
2713.9
2809.8
2805.3
2732.2
2684.2
2633.9
2528.8
2394.1
2247.9
2033.1
1797.8
1562.5
1345.5
1183.3
1055.4
941.2
881.8
847.5
833.8
833.8
833.8
833.8
836.1
856.7
934.3
989.1
961.7
865.8
763.0
657.9
525.4
397.5
253.6
105.1
0.0

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