

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: P477614

Luminaire Tested: **IFLD-S-SA3E-722-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477614
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3E-722-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens
Light Source: (48) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

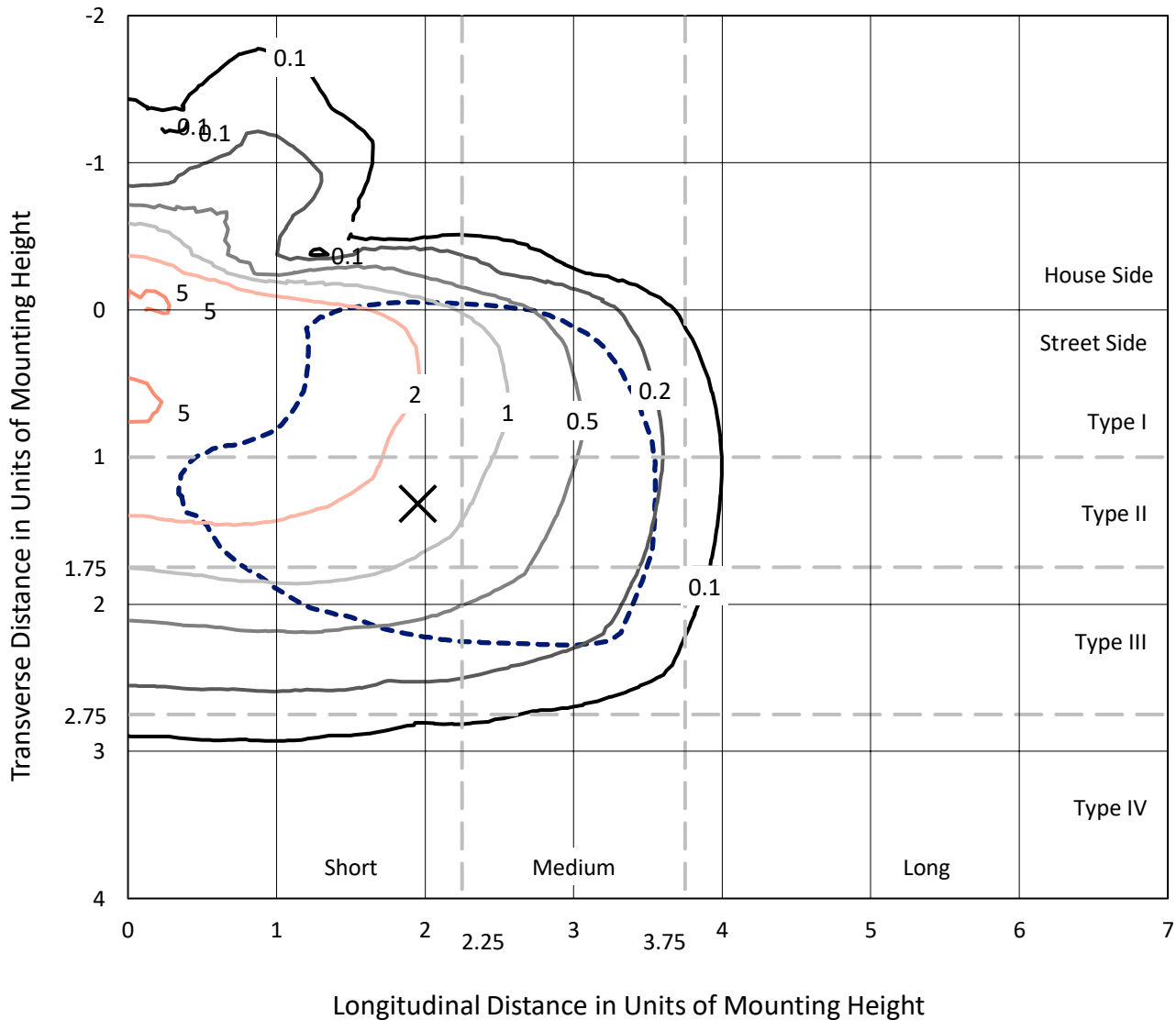
Lumens per Lamp: N/A
Luminaire Lumens: 19516.8 lumens
Efficiency: N/A
Efficacy: 84.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 232.1
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

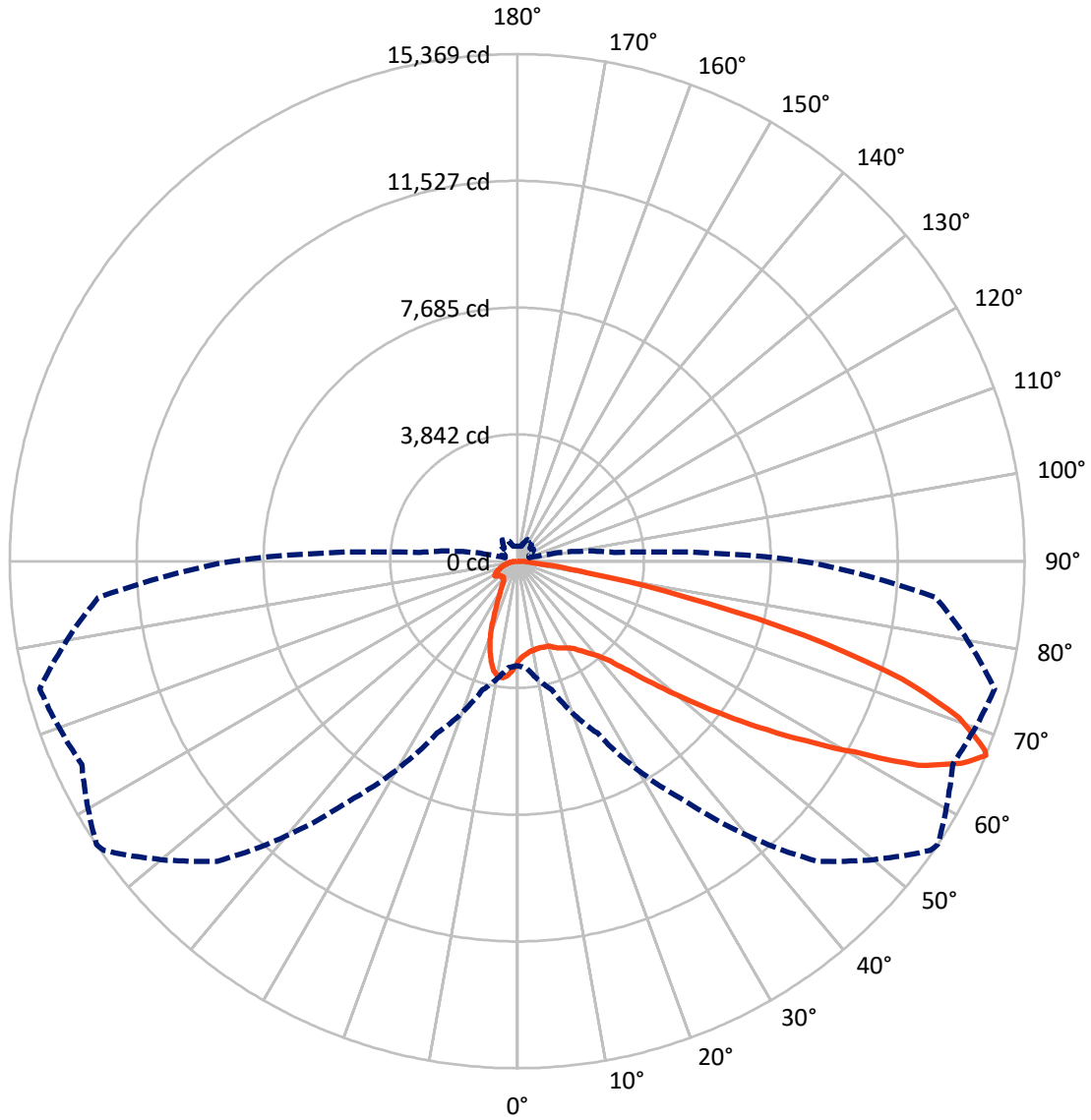
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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	3089.7	0.0	3089.7
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	16427.1	0.0	16427.1
	% Fixture	84.2	0.0	84.2
Total	Lumens	19516.8	0.0	19516.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.6	1.5
10°-20°	798.1	4.1
20°-30°	1251.7	6.4
30°-40°	1786.8	9.2
40°-50°	2696.8	13.8
50°-60°	4292.9	22.0
60°-70°	5488.1	28.1
70°-80°	2675.8	13.7
80°-90°	234.1	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°	19516.8	100.0
0°-180°	19516.8	100.0

Coefficient of Utilization

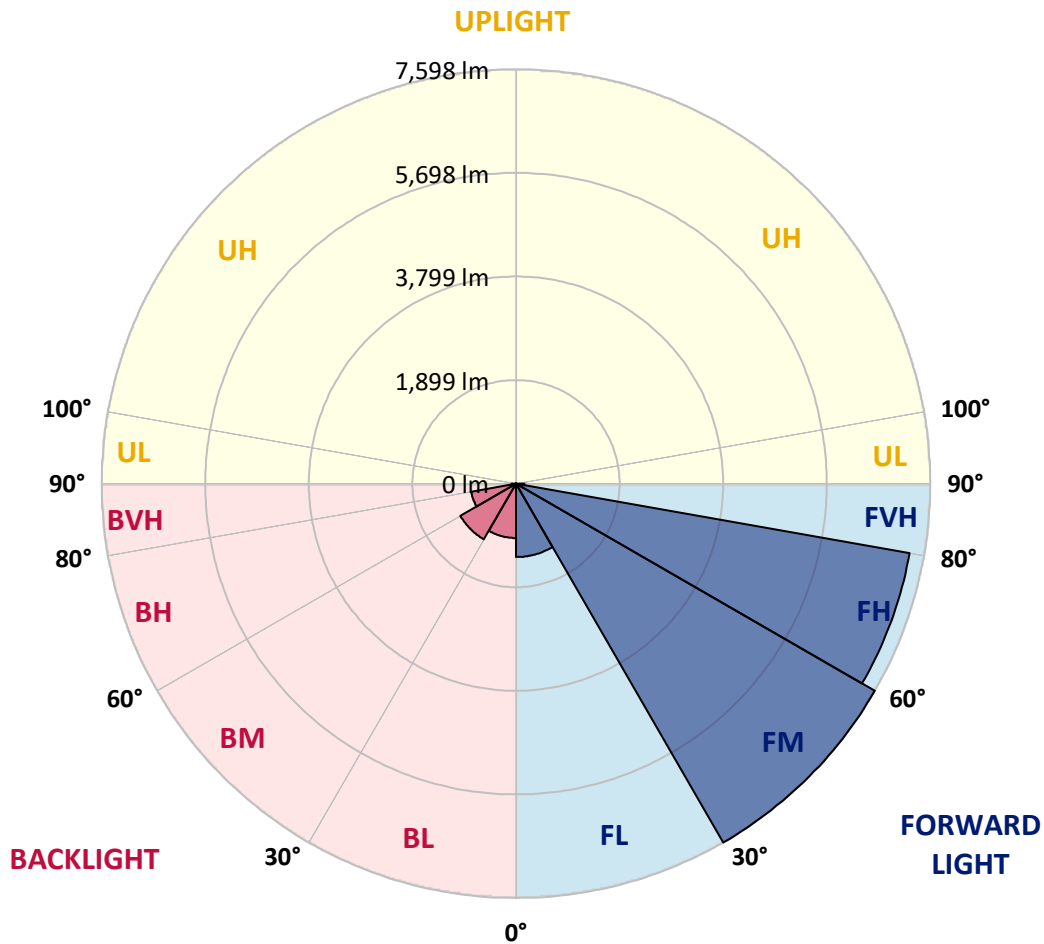


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1344.9	6.9			
FM (30°-60°)	7597.7	38.9			
FH (60°-80°)	7329.0	37.6			G3/7500
FVH (80°-90°)	155.5	0.8			G2/225
BL (0°-30°)	997.4	5.1	B2/1000		
BM (30°-60°)	1178.8	6.0	B2/2500		
BH (60°-80°)	834.9	4.3	B2/1000		G2/1000
BVH (80°-90°)	78.6	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°	3036.8	3036.8	3036.8	3036.8	3036.8	3036.8	3036.8	3036.8	3036.8	3036.8
2.5°	2789.6	2778.2	2791.9	2778.2	2840.0	2876.6	2888.0	2904.0	2961.2	3016.2
5°	2672.9	2622.6	2677.5	2695.8	2700.4	2762.2	2826.2	2837.7	2867.4	2956.7
7.5°	2478.4	2535.6	2515.0	2569.9	2627.1	2688.9	2794.2	2764.4	2874.3	2959.0
10°	2437.2	2441.8	2464.7	2485.3	2535.6	2615.7	2762.2	2743.8	2856.0	3036.8
12.5°	2478.4	2478.4	2471.5	2455.5	2512.7	2590.5	2707.2	2716.4	2892.6	3059.7
15°	2622.6	2650.0	2576.8	2588.2	2565.3	2590.5	2693.5	2714.1	2906.3	3078.0
17.5°	2975.0	2965.8	2878.9	2757.6	2656.9	2640.9	2711.8	2734.7	2892.6	3130.6
20°	3318.2	3299.9	3148.9	3023.0	2823.9	2730.1	2741.6	2743.8	2915.5	3164.9
22.5°	3700.4	3748.5	3583.7	3327.4	3080.2	2846.8	2801.1	2837.7	2968.1	3183.2
25°	4300.0	4197.0	4055.1	3718.7	3320.5	3027.6	2899.5	2917.8	3018.5	3229.0
27.5°	4732.5	4691.3	4469.3	4197.0	3656.9	3169.5	2952.1	2986.4	3110.0	3226.7
30°	5149.0	5149.0	5014.0	4606.6	4011.6	3407.5	3064.2	3048.2	3066.5	3222.1
32.5°	5636.4	5570.1	5375.6	5105.5	4457.9	3624.9	3153.5	3158.1	3158.1	3306.8
35°	5892.7	6000.3	5869.9	5430.5	4798.9	3986.5	3368.6	3334.3	3309.1	3400.6
37.5°	6268.1	6332.1	6194.8	5936.2	5222.2	4279.4	3558.5	3531.1	3384.6	3473.9
40°	6494.6	6483.2	6478.6	6359.6	5782.9	4624.9	3837.7	3766.8	3570.0	3732.5
42.5°	6622.8	6599.9	6881.4	6808.1	6311.5	5133.0	4187.9	4149.0	3931.5	4192.4
45°	6766.9	6936.3	7167.4	7373.4	6927.1	5847.0	4780.6	4725.6	4531.1	4862.9
47.5°	6892.8	7101.0	7396.3	7615.9	7483.2	6622.8	5512.9	5526.6	5398.4	5739.4
50°	7103.3	7123.9	7524.4	7968.4	8071.3	7339.0	6496.9	6474.0	6416.8	6895.1
52.5°	7039.3	7101.0	7606.8	8174.3	8343.7	8096.5	7554.2	7622.8	7547.3	8149.2
55°	5995.7	6181.1	7556.4	8391.7	8989.0	8952.4	8913.5	8867.7	8863.1	9558.8
57.5°	5522.0	5673.1	6657.1	8632.0	9680.1	9950.2	10201.9	10252.2	10249.9	11089.8
60°	5210.8	5366.4	6293.2	8501.6	10268.3	11256.9	11739.7	11746.6	11732.9	12726.0
62.5°	4602.1	4753.1	5663.9	7787.6	10430.7	12462.9	13538.4	13627.7	12998.4	14135.7
65°	3869.8	3993.3	4796.6	6696.0	9998.2	13229.5	14890.9	14785.6	14064.8	14941.3
67°	3164.9	3247.3	4030.0	5748.6	8867.7	12861.1	15282.2	15369.2	14556.8	14975.6
67.5°	2963.5	3039.1	3778.2	5425.9	8437.5	12581.9	15296.0	15282.2	14566.0	14982.5
70°	2057.3	2089.4	2574.5	3732.5	6215.4	10629.8	14179.2	14211.2	13954.9	14170.1
72.5°	1363.9	1412.0	1720.9	2352.5	3663.8	7734.9	11851.9	12195.1	12032.6	11618.4
75°	878.8	906.2	1125.9	1400.5	1803.3	4405.3	8755.6	8984.4	8611.4	7185.7
77.5°	492.0	521.8	679.7	851.3	878.8	1833.0	4917.9	5201.6	4407.5	3052.8
80°	306.7	345.6	512.6	505.7	418.8	672.8	2027.6	2171.7	1762.1	1050.4
82.5°	231.1	260.9	395.9	354.7	235.7	299.8	759.8	814.7	645.3	405.1
85°	157.9	199.1	286.1	219.7	123.6	144.2	302.1	325.0	295.2	196.8
87.5°	57.2	84.7	148.7	109.8	54.9	43.5	98.4	109.8	105.3	89.2
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°
3036.8	0°	3036.8	3036.8	3036.8	3036.8	3036.8	3036.8	3036.8	3036.8	3036.8	3036.8
3064.2	2.5°	3107.7	3139.7	3155.8	3249.6	3288.5	3281.6	3290.8	3304.5	3318.2	3336.6
3103.1	5°	3132.9	3231.3	3283.9	3393.8	3467.0	3435.0	3476.1	3464.7	3448.7	3446.4
3174.1	7.5°	3215.3	3341.1	3499.0	3528.8	3560.8	3480.7	3412.1	3318.2	3295.4	3215.3
3233.6	10°	3361.7	3464.7	3656.9	3668.4	3526.5	3320.5	3167.2	2972.7	2970.4	2853.7
3325.1	12.5°	3501.3	3618.0	3773.6	3707.3	3368.6	3087.1	2837.7	2624.8	2535.6	2476.1
3380.0	15°	3588.3	3780.5	3862.9	3576.8	3091.7	2711.8	2389.1	2160.3	2068.8	2025.3
3448.7	17.5°	3668.4	3936.1	3899.5	3348.0	2750.7	2325.1	1940.6	1741.5	1716.3	1684.3
3558.5	20°	3778.2	3993.3	3769.1	3050.5	2364.0	1826.2	1581.3	1485.2	1508.1	1521.8
3570.0	22.5°	3881.2	4023.1	3604.3	2725.5	1867.4	1446.3	1325.0	1345.6	1379.9	1425.7
3597.4	25°	3927.0	4071.1	3382.3	2277.0	1421.1	1217.5	1190.0	1224.3	1281.5	1283.8
3636.3	27.5°	3956.7	4036.8	3114.6	1839.9	1123.6	1064.1	1105.3	1130.5	1137.4	1164.8
3718.7	30°	4009.4	3965.9	2775.9	1315.9	942.8	945.1	997.8	997.8	997.8	1018.4
3801.1	32.5°	4100.9	3917.8	2380.0	961.1	812.4	885.6	871.9	867.3	858.2	833.0
3906.4	35°	4158.1	3787.4	1878.8	711.7	730.0	812.4	807.8	736.9	617.9	558.4
4174.1	37.5°	4277.1	3721.0	1382.2	549.2	682.0	775.8	750.6	579.0	448.5	391.3
4505.9	40°	4533.4	3677.5	956.6	480.6	649.9	757.5	670.5	494.3	343.3	242.6
5018.6	42.5°	4846.9	3679.8	649.9	453.1	652.2	796.4	645.3	423.4	242.6	194.5
5702.8	45°	5268.0	3645.5	446.2	453.1	693.4	860.5	661.4	384.5	235.7	247.2
6561.0	47.5°	5721.1	3675.2	331.8	411.9	700.3	862.7	604.1	377.6	226.6	286.1
7494.7	50°	6249.7	3705.0	274.6	379.9	702.6	835.3	556.1	368.4	235.7	302.1
8565.7	52.5°	6794.4	3798.8	233.4	359.3	730.0	823.8	556.1	382.2	235.7	263.2
9929.6	55°	7606.8	4039.1	336.4	448.5	830.7	899.4	684.2	535.5	329.5	338.7
11236.3	57.5°	8503.9	4286.3	375.3	471.4	853.6	810.1	736.9	590.4	347.8	350.1
12252.3	60°	9094.3	4295.4	373.0	460.0	798.7	700.3	720.9	622.5	354.7	299.8
12881.7	62.5°	9330.0	4016.2	389.0	460.0	743.7	654.5	739.2	670.5	366.2	375.3
13060.2	65°	9062.2	3439.5	375.3	411.9	654.5	585.8	743.7	679.7	400.5	377.6
12739.8	67°	8643.5	2963.5	382.2	391.3	608.7	556.1	782.6	714.0	464.6	453.1
12572.7	67.5°	8524.5	2837.7	379.9	379.9	592.7	546.9	791.8	714.0	473.7	469.1
11096.7	70°	7513.0	2299.9	389.0	375.3	524.1	519.5	842.1	752.9	544.7	549.2
8151.4	72.5°	5718.8	1743.8	386.7	375.3	455.4	496.6	849.0	778.1	592.7	549.2
4565.4	75°	3249.6	1043.5	341.0	327.2	359.3	432.5	794.1	741.5	576.7	492.0
1823.9	77.5°	1343.3	537.8	313.5	295.2	297.5	352.4	661.4	691.1	549.2	418.8
608.7	80°	501.2	322.7	251.7	235.7	228.8	258.6	471.4	551.5	469.1	343.3
267.7	82.5°	260.9	201.4	171.6	171.6	155.6	164.8	254.0	366.2	354.7	235.7
107.6	85°	132.7	114.4	98.4	96.1	87.0	77.8	128.2	217.4	203.7	130.4
48.1	87.5°	70.9	64.1	41.2	38.9	32.0	20.6	22.9	43.5	70.9	57.2
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>
3036.8
3354.9
3467.0
3242.7
2849.1
2462.4
2016.1
1700.3
1505.8
1400.5
1306.7
1190.0
1041.2
819.3
585.8
389.0
235.7
189.9
251.7
318.1
350.1
270.0
357.0
338.7
308.9
379.9
370.7
446.2
460.0
508.0
487.4
439.4
395.9
313.5
185.4
107.6
41.2
0.0

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