

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: P477765

Luminaire Tested: **IFLD-S-SA2E-740-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477765
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-740-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

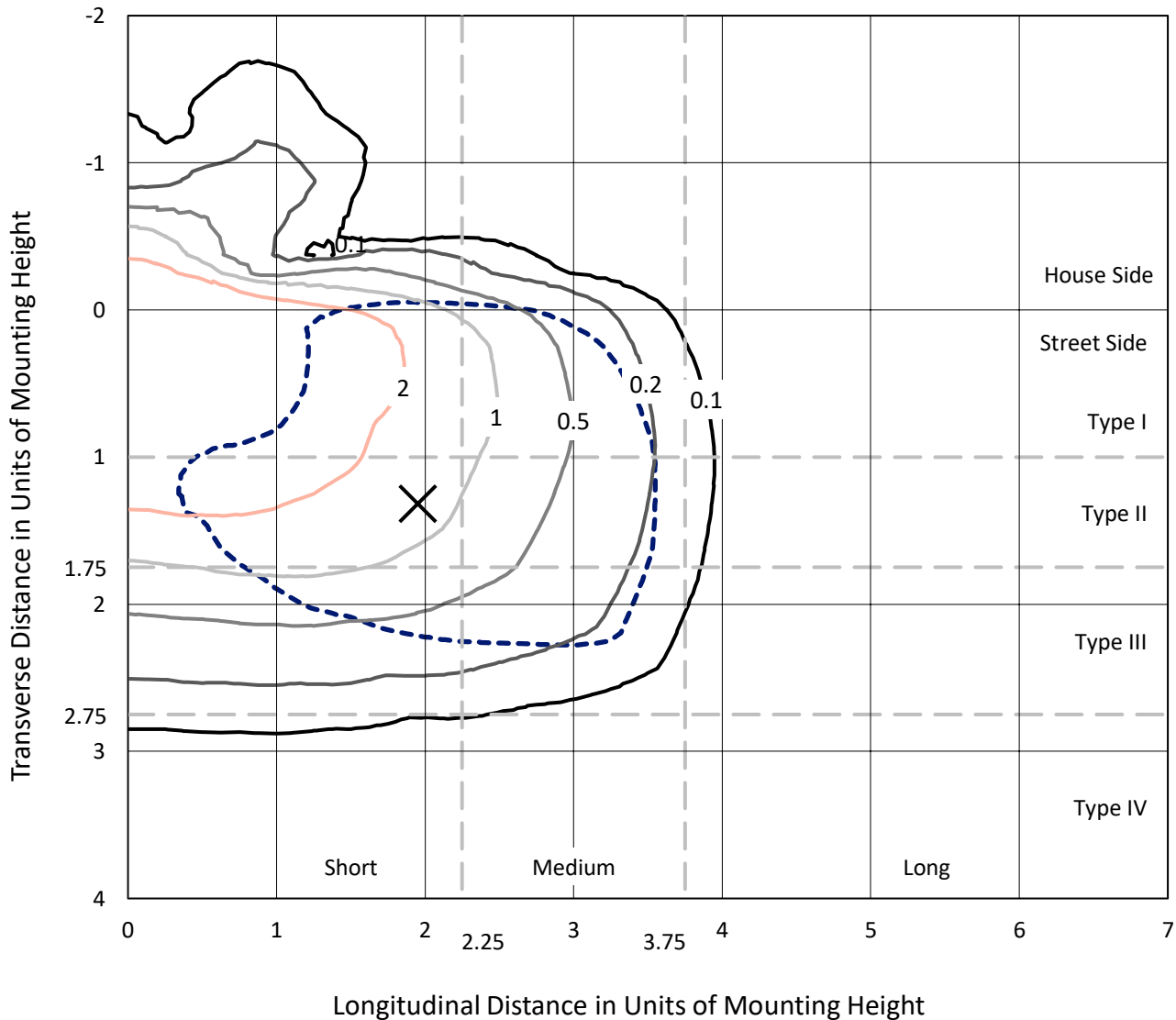
Lumens per Lamp: N/A
Luminaire Lumens: 17778.9 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 156.2
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

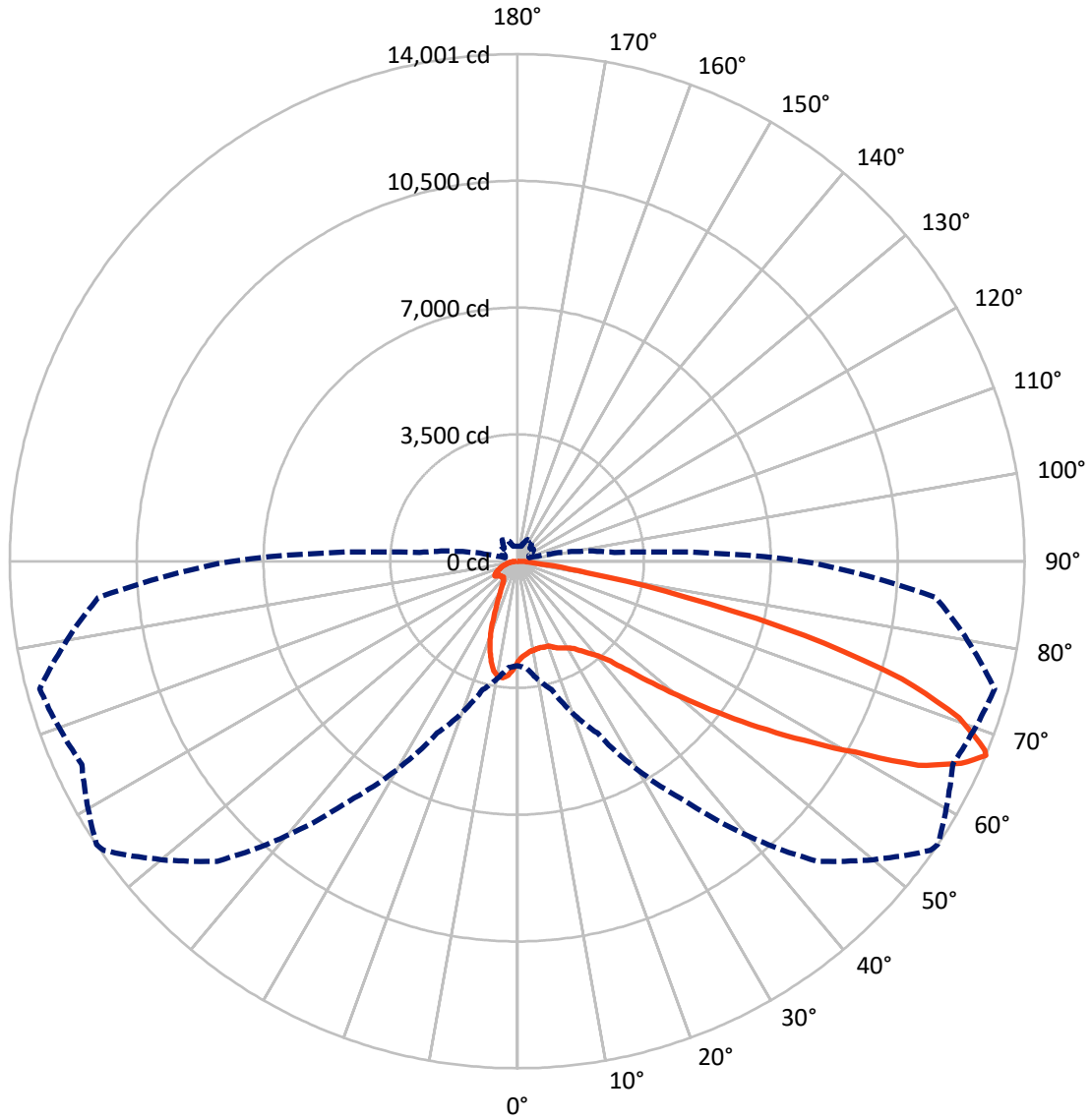
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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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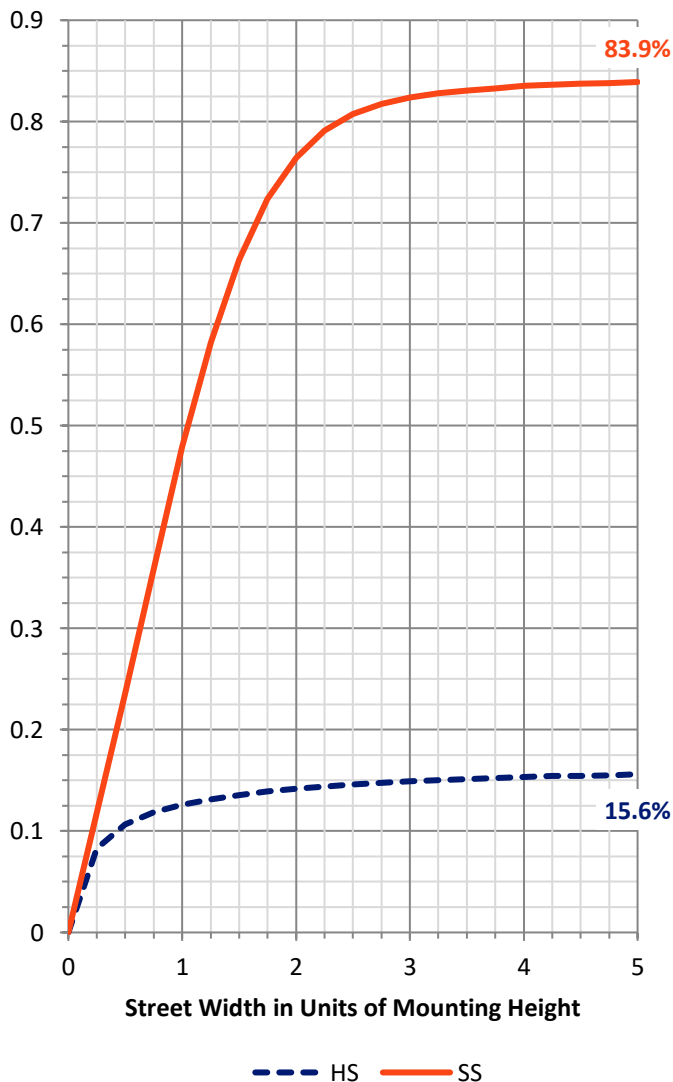
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2814.6	0.0	2814.6
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	14964.4	0.0	14964.4
	% Fixture	84.2	0.0	84.2
Total	Lumens	17778.9	0.0	17778.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.5	1.5
10°-20°	727.1	4.1
20°-30°	1140.2	6.4
30°-40°	1627.7	9.2
40°-50°	2456.7	13.8
50°-60°	3910.6	22.0
60°-70°	4999.4	28.1
70°-80°	2437.5	13.7
80°-90°	213.2	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°	17778.9	100.0
0°-180°	17778.9	100.0

Coefficient of Utilization

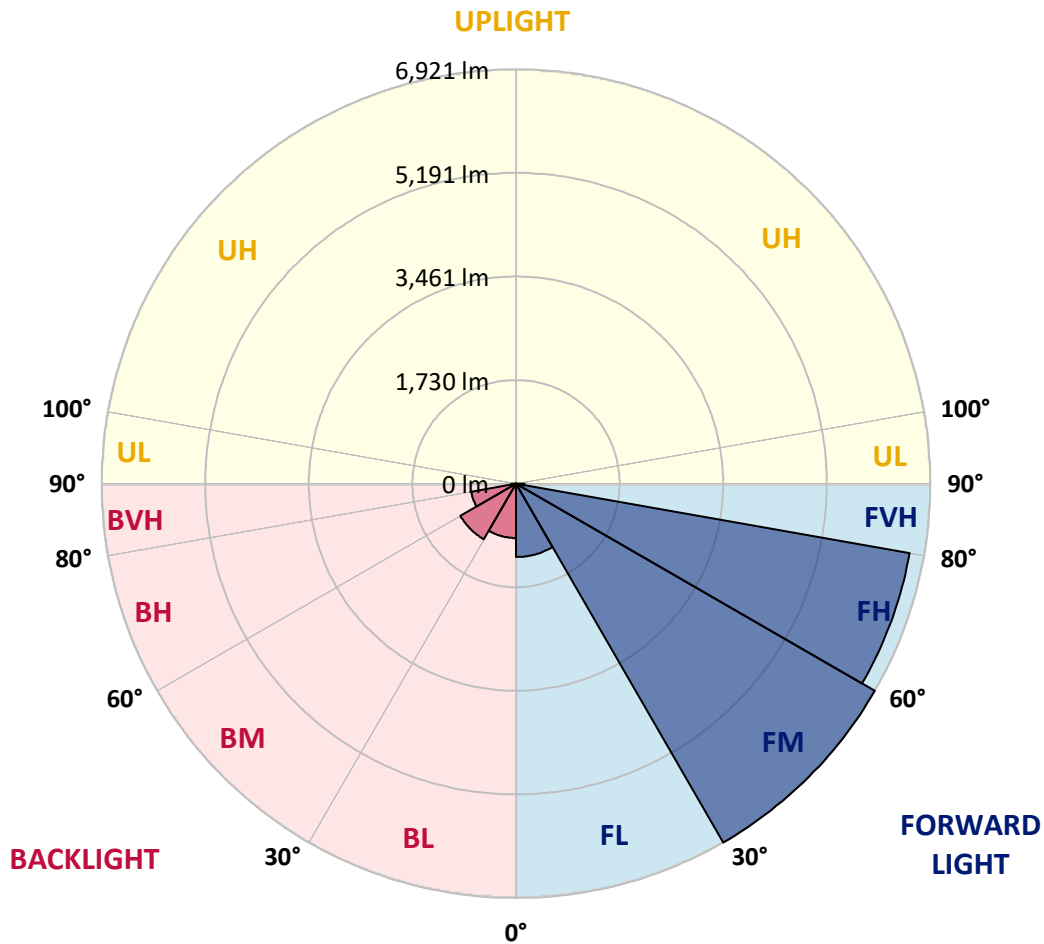


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1225.2	6.9			
FM (30°-60°)	6921.2	38.9			
FH (60°-80°)	6676.4	37.6			G3/7500
FVH (80°-90°)	141.6	0.8			G2/225
BL (0°-30°)	908.6	5.1	B2/1000		
BM (30°-60°)	1073.8	6.0	B2/2500		
BH (60°-80°)	760.5	4.3	B2/1000		G2/1000
BVH (80°-90°)	71.6	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°	2766.4	2766.4	2766.4	2766.4	2766.4	2766.4	2766.4	2766.4	2766.4	2766.4
2.5°	2541.2	2530.8	2543.3	2530.8	2587.1	2620.4	2630.9	2645.4	2697.6	2747.6
5°	2434.9	2389.0	2439.1	2455.7	2459.9	2516.2	2574.6	2585.0	2612.1	2693.4
7.5°	2257.7	2309.8	2291.1	2341.1	2393.2	2449.5	2545.4	2518.3	2618.3	2695.5
10°	2220.2	2224.3	2245.2	2264.0	2309.8	2382.8	2516.2	2499.5	2601.7	2766.4
12.5°	2257.7	2257.7	2251.4	2236.9	2289.0	2359.8	2466.2	2474.5	2635.0	2787.2
15°	2389.0	2414.0	2347.3	2357.8	2336.9	2359.8	2453.7	2472.4	2647.5	2803.9
17.5°	2710.1	2701.7	2622.5	2512.0	2420.3	2405.7	2470.3	2491.2	2635.0	2851.8
20°	3022.8	3006.1	2868.5	2753.8	2572.5	2487.0	2497.4	2499.5	2655.9	2883.1
22.5°	3370.9	3414.7	3264.6	3031.1	2806.0	2593.3	2551.6	2585.0	2703.8	2899.8
25°	3917.1	3823.3	3694.0	3387.6	3024.9	2758.0	2641.3	2658.0	2749.7	2941.5
27.5°	4311.1	4273.6	4071.4	3823.3	3331.3	2887.3	2689.2	2720.5	2833.1	2939.4
30°	4690.5	4690.5	4567.5	4196.4	3654.4	3104.1	2791.4	2776.8	2793.5	2935.2
32.5°	5134.5	5074.1	4896.9	4650.9	4060.9	3302.1	2872.7	2876.8	2876.8	3012.3
35°	5368.0	5466.0	5347.2	4946.9	4371.6	3631.5	3068.6	3037.4	3014.4	3097.8
37.5°	5709.9	5768.3	5643.2	5407.6	4757.2	3898.3	3241.7	3216.6	3083.2	3164.5
40°	5916.3	5905.9	5901.7	5793.3	5268.0	4213.1	3496.0	3431.4	3252.1	3400.1
42.5°	6033.0	6012.2	6268.6	6201.9	5749.5	4675.9	3814.9	3779.5	3581.5	3819.1
45°	6164.4	6318.6	6529.2	6716.8	6310.3	5326.3	4354.9	4304.8	4127.6	4429.9
47.5°	6279.0	6468.7	6737.7	6937.8	6816.9	6033.0	5022.0	5034.5	4917.7	5228.4
50°	6470.8	6489.6	6854.4	7258.8	7352.6	6685.5	5918.4	5897.5	5845.4	6281.1
52.5°	6412.4	6468.7	6929.4	7446.4	7600.7	7375.6	6881.5	6944.0	6875.2	7423.5
55°	5461.8	5630.7	6883.6	7644.5	8188.6	8155.2	8119.8	8078.1	8073.9	8707.7
57.5°	5030.3	5167.9	6064.3	7863.4	8818.2	9064.1	9293.5	9339.3	9337.2	10102.3
60°	4746.8	4888.6	5732.8	7744.6	9353.9	10254.5	10694.4	10700.6	10688.1	11592.9
62.5°	4192.3	4329.9	5159.6	7094.1	9501.9	11353.1	12332.9	12414.2	11840.9	12877.0
65°	3525.2	3637.7	4369.5	6099.7	9107.9	12051.5	13565.0	13469.1	12812.4	13610.8
67°	2883.1	2958.1	3671.1	5236.7	8078.1	11715.8	13921.4	14000.6	13260.6	13642.1
67.5°	2699.6	2768.4	3441.8	4942.8	7686.2	11461.5	13933.9	13921.4	13268.9	13648.3
70°	1874.1	1903.3	2345.3	3400.1	5662.0	9683.3	12916.6	12945.8	12712.3	12908.3
72.5°	1242.5	1286.2	1567.7	2143.0	3337.6	7046.2	10796.5	11109.2	10961.2	10583.9
75°	800.5	825.5	1025.7	1275.8	1642.7	4013.0	7975.9	8184.4	7844.6	6545.9
77.5°	448.2	475.3	619.1	775.5	800.5	1669.8	4480.0	4738.5	4015.1	2781.0
80°	279.3	314.8	467.0	460.7	381.5	612.9	1847.0	1978.4	1605.2	956.9
82.5°	210.6	237.7	360.6	323.1	214.7	273.1	692.1	742.1	587.9	369.0
85°	143.8	181.4	260.6	200.1	112.6	131.3	275.2	296.0	268.9	179.3
87.5°	52.1	77.1	135.5	100.1	50.0	39.6	89.6	100.1	95.9	81.3
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°
2766.4	0°	2766.4	2766.4	2766.4	2766.4	2766.4	2766.4	2766.4	2766.4	2766.4	2766.4
2791.4	2.5°	2831.0	2860.2	2874.8	2960.2	2995.7	2989.4	2997.8	3010.3	3022.8	3039.4
2826.8	5°	2853.9	2943.6	2991.5	3091.6	3158.3	3129.1	3166.6	3156.2	3141.6	3139.5
2891.4	7.5°	2929.0	3043.6	3187.5	3214.6	3243.7	3170.8	3108.2	3022.8	3001.9	2929.0
2945.6	10°	3062.4	3156.2	3331.3	3341.7	3212.5	3024.9	2885.2	2708.0	2705.9	2599.6
3029.0	12.5°	3189.5	3295.9	3437.6	3377.2	3068.6	2812.2	2585.0	2391.1	2309.8	2255.6
3079.1	15°	3268.8	3443.9	3518.9	3258.3	2816.4	2470.3	2176.4	1967.9	1884.5	1844.9
3141.6	17.5°	3341.7	3585.6	3552.3	3049.9	2505.8	2118.0	1767.8	1586.4	1563.5	1534.3
3241.7	20°	3441.8	3637.7	3433.5	2778.9	2153.5	1663.6	1440.5	1353.0	1373.8	1386.3
3252.1	22.5°	3535.6	3664.9	3283.4	2482.8	1701.1	1317.5	1207.0	1225.8	1257.1	1298.7
3277.1	25°	3577.3	3708.6	3081.1	2074.2	1294.6	1109.0	1084.0	1115.3	1167.4	1169.5
3312.5	27.5°	3604.4	3677.4	2837.2	1676.1	1023.6	969.4	1006.9	1029.8	1036.1	1061.1
3387.6	30°	3652.3	3612.7	2528.7	1198.7	858.9	861.0	908.9	908.9	908.9	927.7
3462.6	32.5°	3735.7	3569.0	2168.1	875.6	740.1	806.8	794.3	790.1	781.8	758.8
3558.5	35°	3787.8	3450.1	1711.5	648.3	665.0	740.1	735.9	671.3	562.9	508.7
3802.4	37.5°	3896.2	3389.7	1259.1	500.3	621.2	706.7	683.8	527.4	408.6	356.5
4104.7	40°	4129.7	3350.1	871.4	437.8	592.0	690.0	610.8	450.3	312.7	221.0
4571.7	42.5°	4415.3	3352.2	592.0	412.8	594.1	725.5	587.9	385.7	221.0	177.2
5195.0	45°	4798.9	3320.9	406.5	412.8	631.7	783.8	602.5	350.2	214.7	225.1
5976.8	47.5°	5211.7	3348.0	302.3	375.2	637.9	785.9	550.4	344.0	206.4	260.6
6827.3	50°	5693.2	3375.1	250.2	346.1	640.0	760.9	506.6	335.6	214.7	275.2
7802.9	52.5°	6189.4	3460.6	212.6	327.3	665.0	750.5	506.6	348.1	214.7	239.7
9045.4	55°	6929.4	3679.4	306.4	408.6	756.7	819.3	623.3	487.8	300.2	308.5
10235.7	57.5°	7746.6	3904.6	341.9	429.4	777.6	738.0	671.3	537.8	316.9	319.0
11161.3	60°	8284.5	3912.9	339.8	419.0	727.5	637.9	656.7	567.0	323.1	273.1
11734.6	62.5°	8499.2	3658.6	354.4	419.0	677.5	596.2	673.3	610.8	333.5	341.9
11897.2	65°	8255.3	3133.3	341.9	375.2	596.2	533.7	677.5	619.1	364.8	344.0
11605.4	67°	7873.8	2699.6	348.1	356.5	554.5	506.6	713.0	650.4	423.2	412.8
11453.2	67.5°	7765.4	2585.0	346.1	346.1	539.9	498.2	721.3	650.4	431.5	427.4
10108.6	70°	6844.0	2095.1	354.4	341.9	477.4	473.2	767.2	685.9	496.2	500.3
7425.6	72.5°	5209.6	1588.5	352.3	341.9	414.8	452.4	773.4	708.8	539.9	500.3
4158.9	75°	2960.2	950.6	310.6	298.1	327.3	394.0	723.4	675.4	525.3	448.2
1661.5	77.5°	1223.7	489.9	285.6	268.9	271.0	321.0	602.5	629.6	500.3	381.5
554.5	80°	456.5	293.9	229.3	214.7	208.5	235.6	429.4	502.4	427.4	312.7
243.9	82.5°	237.7	183.5	156.4	156.4	141.8	150.1	231.4	333.5	323.1	214.7
98.0	85°	120.9	104.2	89.6	87.6	79.2	70.9	116.7	198.0	185.5	118.8
43.8	87.5°	64.6	58.4	37.5	35.4	29.2	18.8	20.8	39.6	64.6	52.1
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°
2766.4
3056.1
3158.3
2954.0
2595.4
2243.1
1836.6
1548.9
1371.7
1275.8
1190.3
1084.0
948.5
746.3
533.7
354.4
214.7
173.0
229.3
289.8
319.0
246.0
325.2
308.5
281.4
346.1
337.7
406.5
419.0
462.8
444.0
400.3
360.6
285.6
168.9
98.0
37.5
0.0

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