

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: P477687

Luminaire Tested: **IFLD-S-SA2E-730-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477687
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-730-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

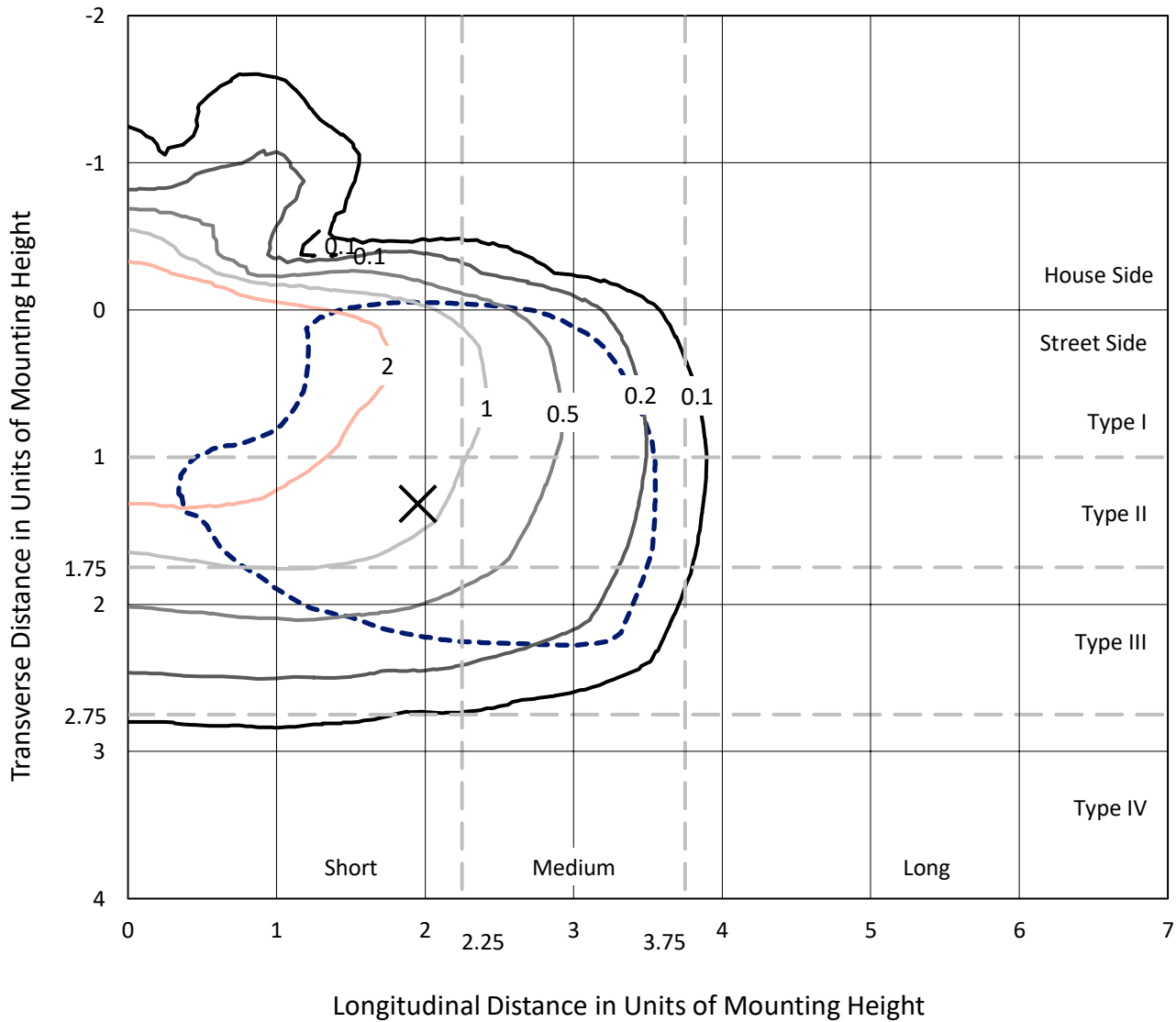
Lumens per Lamp: N/A
Luminaire Lumens: 16189.5 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

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

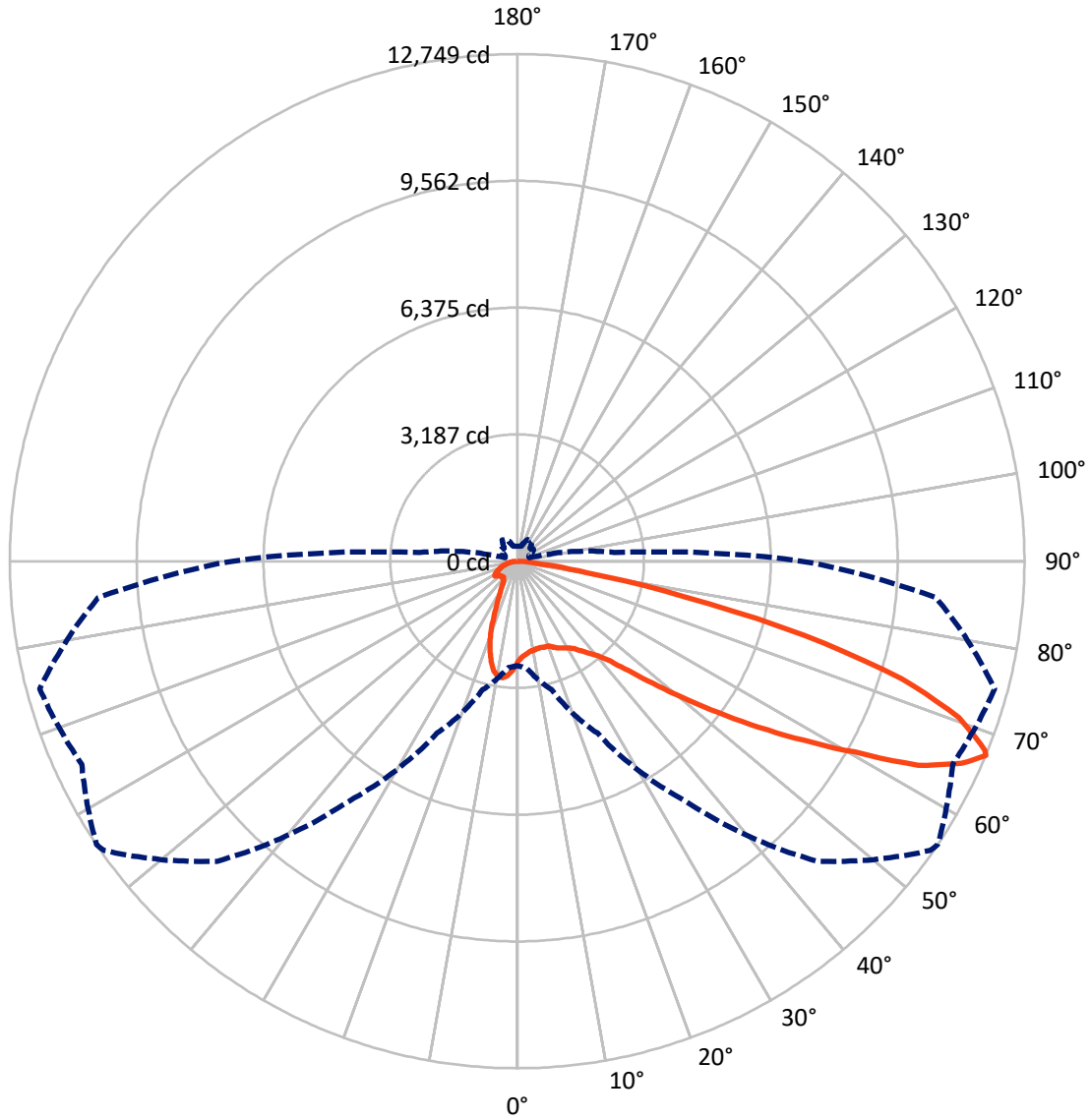
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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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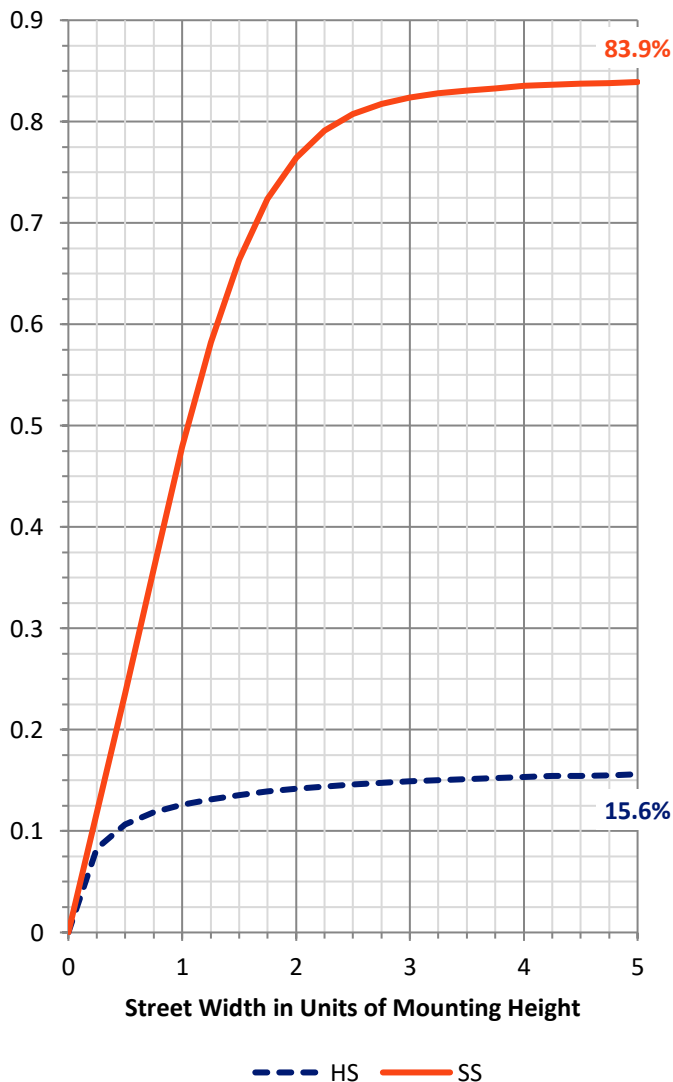
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2563.0	0.0	2563.0
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	13626.5	0.0	13626.5
	% Fixture	84.2	0.0	84.2
Total	Lumens	16189.5	0.0	16189.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.7	1.5
10°-20°	662.1	4.1
20°-30°	1038.3	6.4
30°-40°	1482.2	9.2
40°-50°	2237.1	13.8
50°-60°	3561.0	22.0
60°-70°	4552.5	28.1
70°-80°	2219.6	13.7
80°-90°	194.2	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°	16189.5	100.0
0°-180°	16189.5	100.0

Coefficient of Utilization

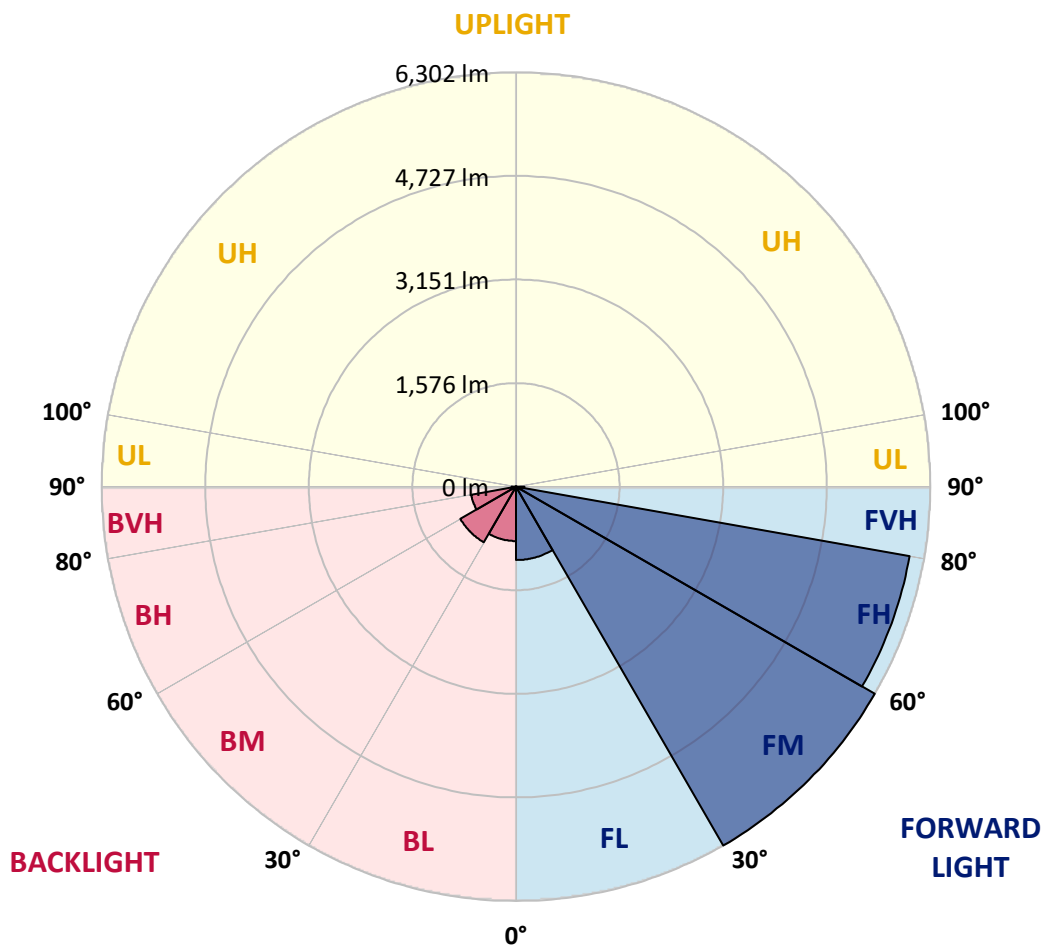


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1115.6	6.9			
FM (30°-60°)	6302.4	38.9			
FH (60°-80°)	6079.5	37.6			G3/7500
FVH (80°-90°)	129.0	0.8			G2/225
BL (0°-30°)	827.4	5.1	B2/1000		
BM (30°-60°)	977.8	6.0	B1/1000		
BH (60°-80°)	692.6	4.3	B2/1000		G2/1000
BVH (80°-90°)	65.2	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°	2519.0	2519.0	2519.0	2519.0	2519.0	2519.0	2519.0	2519.0	2519.0	2519.0
2.5°	2314.0	2304.5	2315.9	2304.5	2355.8	2386.2	2395.7	2408.9	2456.4	2502.0
5°	2217.2	2175.5	2221.0	2236.2	2240.0	2291.2	2344.4	2353.9	2378.6	2452.6
7.5°	2055.9	2103.3	2086.2	2131.8	2179.2	2230.5	2317.8	2293.1	2384.3	2454.5
10°	2021.7	2025.5	2044.5	2061.6	2103.3	2169.8	2291.2	2276.1	2369.1	2519.0
12.5°	2055.9	2055.9	2050.2	2036.9	2084.3	2148.9	2245.7	2253.3	2399.5	2538.0
15°	2175.5	2198.2	2137.5	2147.0	2128.0	2148.9	2234.3	2251.4	2410.8	2553.2
17.5°	2467.8	2460.2	2388.1	2287.5	2203.9	2190.6	2249.5	2268.5	2399.5	2596.9
20°	2752.5	2737.3	2612.1	2507.7	2342.5	2264.7	2274.2	2276.1	2418.4	2625.4
22.5°	3069.6	3109.4	2972.7	2760.1	2555.1	2361.5	2323.5	2353.9	2462.1	2640.5
25°	3566.9	3481.5	3363.8	3084.7	2754.4	2511.5	2405.1	2420.3	2503.9	2678.5
27.5°	3925.7	3891.5	3707.4	3481.5	3033.5	2629.1	2448.8	2477.3	2579.8	2676.6
30°	4271.2	4271.2	4159.2	3821.3	3327.7	2826.6	2541.8	2528.5	2543.7	2672.8
32.5°	4675.5	4620.5	4459.1	4235.1	3697.9	3006.9	2615.9	2619.7	2619.7	2743.0
35°	4888.1	4977.3	4869.1	4504.7	3980.7	3306.8	2794.3	2765.8	2744.9	2820.9
37.5°	5199.4	5252.6	5138.7	4924.2	4331.9	3549.8	2951.9	2929.1	2807.6	2881.6
40°	5387.4	5377.9	5374.1	5275.4	4797.0	3836.5	3183.5	3124.6	2961.3	3096.1
42.5°	5493.7	5474.7	5708.2	5647.4	5235.5	4257.9	3473.9	3441.6	3261.3	3477.7
45°	5613.3	5753.8	5945.5	6116.3	5746.2	4850.2	3965.6	3920.0	3758.6	4033.9
47.5°	5717.7	5890.4	6135.3	6317.5	6207.4	5493.7	4573.0	4584.4	4478.1	4760.9
50°	5892.3	5909.4	6241.6	6609.9	6695.3	6087.9	5389.3	5370.3	5322.8	5719.6
52.5°	5839.2	5890.4	6310.0	6780.7	6921.2	6716.2	6266.3	6323.2	6260.6	6759.8
55°	4973.5	5127.3	6268.2	6961.1	7456.5	7426.2	7393.9	7355.9	7352.1	7929.2
57.5°	4580.6	4705.9	5522.2	7160.4	8029.8	8253.8	8462.6	8504.4	8502.5	9199.2
60°	4322.4	4451.5	5220.3	7052.2	8517.7	9337.7	9738.3	9744.0	9732.6	10556.5
62.5°	3817.5	3942.8	4698.3	6459.9	8652.5	10338.1	11230.3	11304.4	10782.3	11725.8
65°	3210.0	3312.5	3978.8	5554.4	8293.7	10974.1	12352.2	12264.9	11667.0	12394.0
67°	2625.4	2693.7	3342.9	4768.5	7355.9	10668.5	12676.9	12749.0	12075.1	12422.5
67.5°	2458.3	2520.9	3134.1	4500.9	6999.0	10436.9	12688.2	12676.9	12082.7	12428.2
70°	1706.6	1733.1	2135.6	3096.1	5155.8	8817.6	11761.9	11788.4	11575.8	11754.3
72.5°	1131.4	1171.3	1427.5	1951.5	3039.2	6416.3	9831.3	10116.0	9981.3	9637.7
75°	728.9	751.7	934.0	1161.8	1495.9	3654.2	7262.9	7452.7	7143.3	5960.7
77.5°	408.1	432.8	563.8	706.2	728.9	1520.5	4079.4	4314.8	3656.1	2532.3
80°	254.4	286.6	425.2	419.5	347.4	558.1	1681.9	1801.5	1461.7	871.3
82.5°	191.7	216.4	328.4	294.2	195.5	248.7	630.2	675.8	535.3	336.0
85°	131.0	165.2	237.3	182.2	102.5	119.6	250.6	269.6	244.9	163.3
87.5°	47.5	70.2	123.4	91.1	45.6	36.1	81.6	91.1	87.3	74.0
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°
2519.0	0°	2519.0	2519.0	2519.0	2519.0	2519.0	2519.0	2519.0	2519.0	2519.0	2519.0
2541.8	2.5°	2577.9	2604.5	2617.8	2695.6	2727.9	2722.2	2729.8	2741.1	2752.5	2767.7
2574.1	5°	2598.8	2680.4	2724.1	2815.2	2875.9	2849.3	2883.5	2874.0	2860.7	2858.8
2632.9	7.5°	2667.1	2771.5	2902.5	2927.2	2953.8	2887.3	2830.4	2752.5	2733.6	2667.1
2682.3	10°	2788.6	2874.0	3033.5	3043.0	2925.3	2754.4	2627.2	2465.9	2464.0	2367.2
2758.2	12.5°	2904.4	3001.2	3130.3	3075.2	2794.3	2560.8	2353.9	2177.4	2103.3	2054.0
2803.8	15°	2976.5	3136.0	3204.3	2967.0	2564.6	2249.5	1981.8	1792.0	1716.1	1680.0
2860.7	17.5°	3043.0	3265.1	3234.7	2777.2	2281.8	1928.7	1609.8	1444.6	1423.7	1397.1
2951.9	20°	3134.1	3312.5	3126.5	2530.4	1960.9	1514.8	1311.7	1232.0	1251.0	1262.4
2961.3	22.5°	3219.5	3337.2	2989.8	2260.9	1549.0	1199.7	1099.1	1116.2	1144.7	1182.6
2984.1	25°	3257.5	3377.1	2805.7	1888.8	1178.8	1009.9	987.1	1015.6	1063.0	1064.9
3016.4	27.5°	3282.2	3348.6	2583.6	1526.2	932.1	882.7	916.9	937.8	943.5	966.2
3084.7	30°	3325.8	3289.8	2302.6	1091.5	782.1	784.0	827.7	827.7	827.7	844.7
3153.1	32.5°	3401.8	3249.9	1974.2	797.3	673.9	734.6	723.3	719.5	711.9	691.0
3240.4	35°	3449.2	3141.7	1558.5	590.4	605.6	673.9	670.1	611.3	512.5	463.2
3462.5	37.5°	3547.9	3086.6	1146.6	455.6	565.7	643.5	622.6	480.3	372.1	324.6
3737.8	40°	3760.5	3050.6	793.5	398.6	539.1	628.3	556.2	410.0	284.7	201.2
4163.0	42.5°	4020.6	3052.5	539.1	375.9	541.0	660.6	535.3	351.2	201.2	161.4
4730.6	45°	4369.9	3024.0	370.2	375.9	575.2	713.8	548.6	318.9	195.5	205.0
5442.4	47.5°	4745.8	3048.7	275.3	341.7	580.9	715.7	501.2	313.2	187.9	237.3
6216.9	50°	5184.3	3073.3	227.8	315.1	582.8	692.9	461.3	305.6	195.5	250.6
7105.3	52.5°	5636.1	3151.2	193.6	298.0	605.6	683.4	461.3	317.0	195.5	218.3
8236.7	55°	6310.0	3350.5	279.1	372.1	689.1	746.0	567.6	444.2	273.4	280.9
9320.7	57.5°	7054.1	3555.5	311.3	391.0	708.1	672.0	611.3	489.8	288.5	290.4
10163.5	60°	7543.8	3563.1	309.4	381.6	662.5	580.9	598.0	516.3	294.2	248.7
10685.5	62.5°	7739.4	3331.5	322.7	381.6	616.9	542.9	613.2	556.2	303.7	311.3
10833.6	65°	7517.3	2853.1	311.3	341.7	542.9	486.0	616.9	563.8	332.2	313.2
10567.8	67°	7169.9	2458.3	317.0	324.6	504.9	461.3	649.2	592.3	385.4	375.9
10429.3	67.5°	7071.2	2353.9	315.1	315.1	491.7	453.7	656.8	592.3	392.9	389.2
9204.9	70°	6232.1	1907.8	322.7	311.3	434.7	430.9	698.6	624.5	451.8	455.6
6761.7	72.5°	4743.9	1446.5	320.8	311.3	377.8	411.9	704.3	645.4	491.7	455.6
3787.1	75°	2695.6	865.6	282.8	271.5	298.0	358.8	658.7	615.0	478.4	408.1
1512.9	77.5°	1114.3	446.1	260.1	244.9	246.8	292.3	548.6	573.3	455.6	347.4
504.9	80°	415.7	267.7	208.8	195.5	189.8	214.5	391.0	457.5	389.2	284.7
222.1	82.5°	216.4	167.1	142.4	142.4	129.1	136.7	210.7	303.7	294.2	195.5
89.2	85°	110.1	94.9	81.6	79.7	72.1	64.5	106.3	180.3	168.9	108.2
39.9	87.5°	58.8	53.2	34.2	32.3	26.6	17.1	19.0	36.1	58.8	47.5
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>
2519.0
2782.9
2875.9
2689.9
2363.4
2042.6
1672.4
1410.4
1249.1
1161.8
1083.9
987.1
863.7
679.6
486.0
322.7
195.5
157.6
208.8
263.9
290.4
224.0
296.1
280.9
256.3
315.1
307.5
370.2
381.6
421.4
404.3
364.5
328.4
260.1
153.8
89.2
34.2
0.0

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