

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: P477508

Luminaire Tested: **IFLD-S-SA6A-827-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477508
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-827-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (96) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

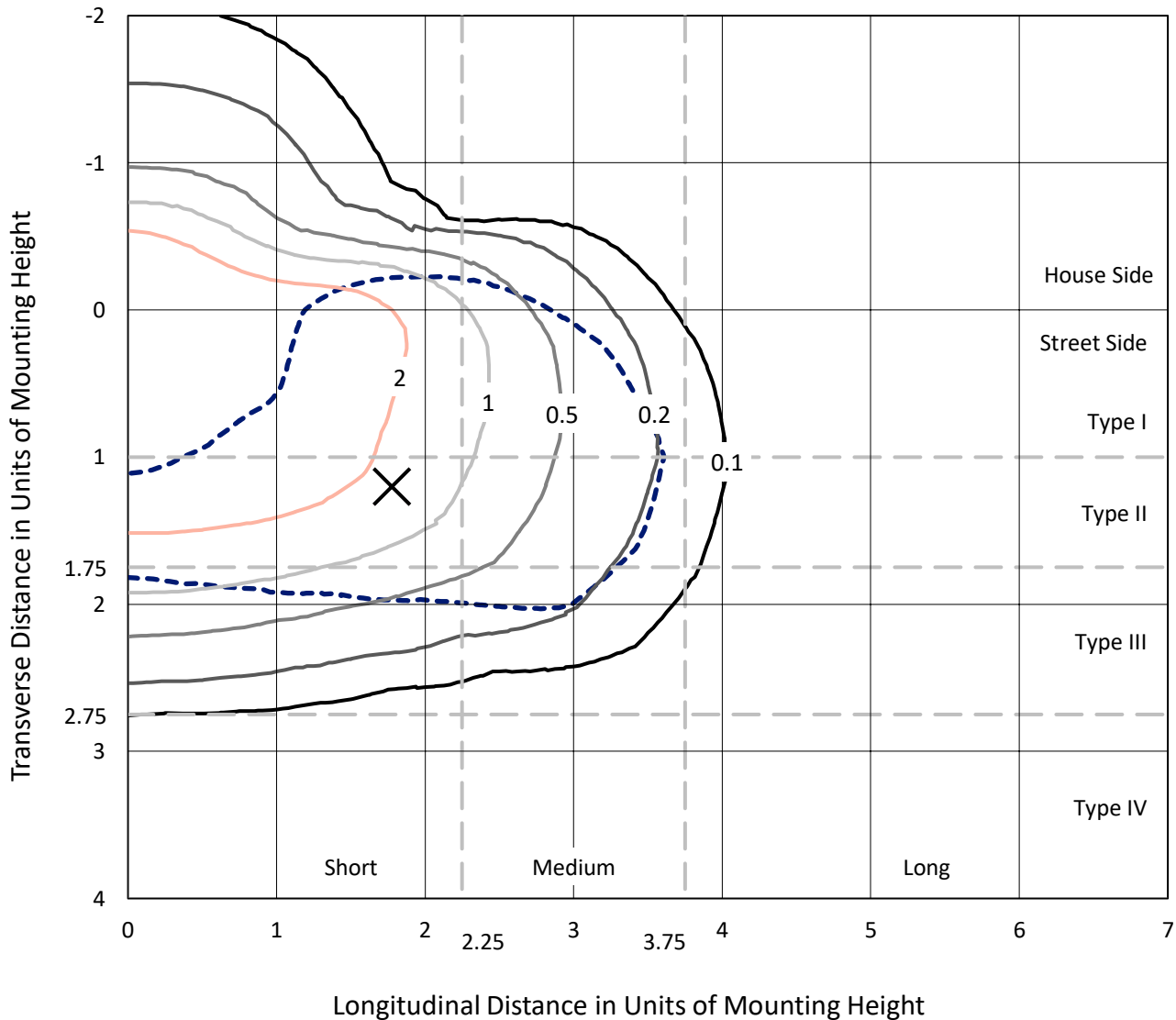
Lumens per Lamp: N/A
Luminaire Lumens: 20207.8 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 189.6
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

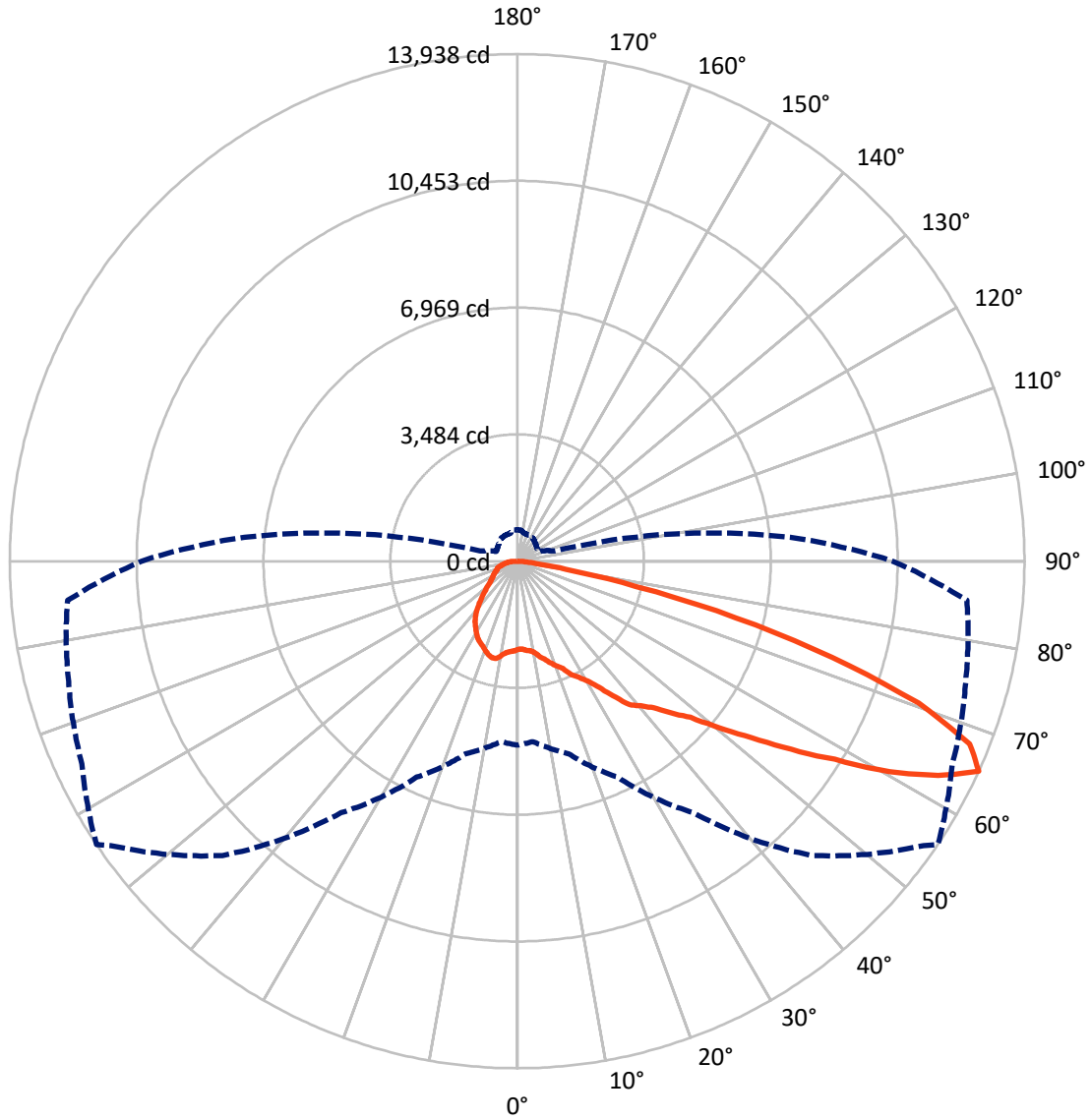
✕ Max cd
 - - - 1/2 Max cd



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 65-Deg Vertical

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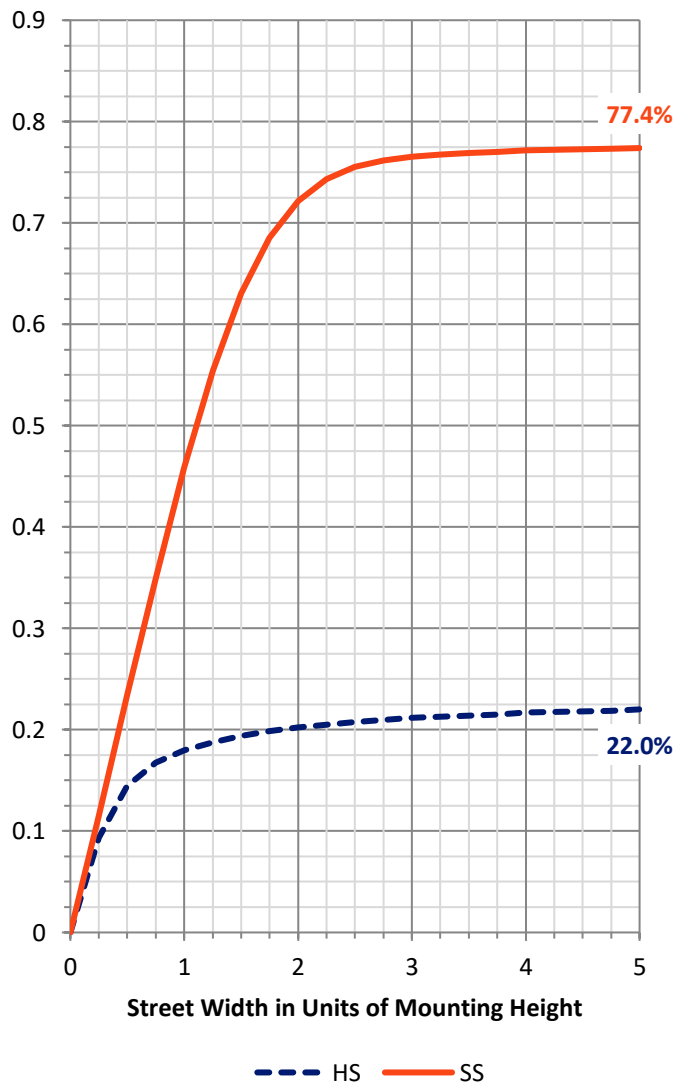
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4531.9	0.0	4531.9
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	15675.8	0.0	15675.8
	% Fixture	77.6	0.0	77.6
Total	Lumens	20207.8	0.0	20207.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.4	1.2
10°-20°	780.5	3.9
20°-30°	1389.7	6.9
30°-40°	2081.0	10.3
40°-50°	3083.3	15.3
50°-60°	4750.9	23.5
60°-70°	5378.6	26.6
70°-80°	2232.2	11.0
80°-90°	271.2	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°	20207.8	100.0
0°-180°	20207.8	100.0

Coefficient of Utilization

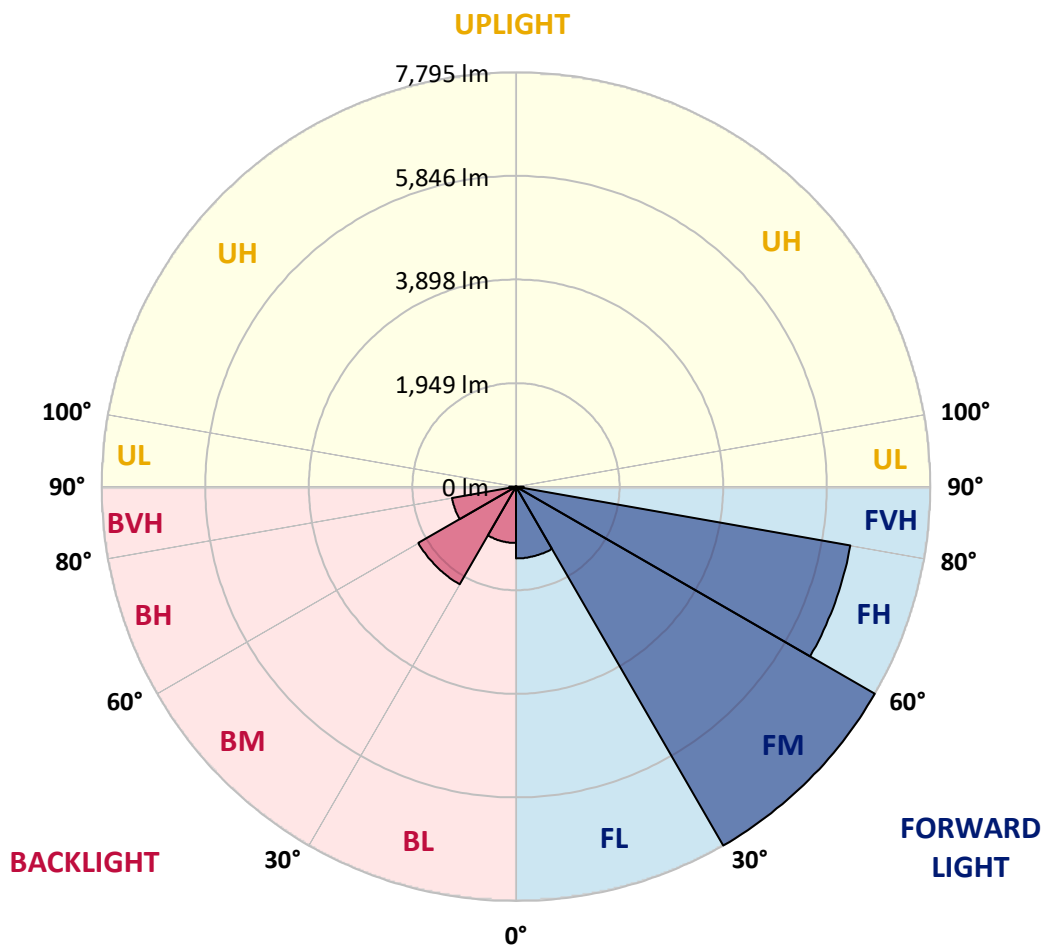


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1350.5	6.7			
FM (30°-60°)	7795.3	38.6			
FH (60°-80°)	6387.0	31.6			G3/7500
FVH (80°-90°)	143.0	0.7			G2/225
BL (0°-30°)	1060.1	5.2	B3/2500		
BM (30°-60°)	2120.0	10.5	B2/2500		
BH (60°-80°)	1223.8	6.1	B3/2500		G3/2500
BVH (80°-90°)	128.1	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°	2425.5	2425.5	2425.5	2425.5	2425.5	2425.5	2425.5	2425.5	2425.5	2425.5
2.5°	2362.1	2374.8	2366.3	2391.7	2412.8	2412.8	2429.7	2417.0	2434.0	2457.2
5°	2440.3	2389.6	2417.0	2429.7	2423.4	2434.0	2417.0	2459.3	2431.9	2476.3
7.5°	2459.3	2478.4	2501.6	2480.5	2499.5	2488.9	2491.1	2484.7	2469.9	2505.9
10°	2598.9	2571.4	2624.3	2592.6	2588.3	2584.1	2575.6	2543.9	2579.9	2582.0
12.5°	2759.6	2734.2	2732.1	2706.8	2740.6	2679.3	2692.0	2675.0	2681.4	2689.8
15°	2875.9	2865.4	2914.0	2884.4	2840.0	2812.5	2842.1	2795.6	2818.8	2814.6
17.5°	3106.4	3104.3	3068.4	3019.7	2994.3	2954.2	2947.8	2928.8	2945.7	2937.3
20°	3267.1	3290.4	3296.7	3239.6	3142.4	3098.0	3087.4	3072.6	3091.6	3085.3
22.5°	3512.4	3476.5	3504.0	3404.6	3368.6	3262.9	3224.8	3203.7	3294.6	3271.4
25°	3668.9	3707.0	3679.5	3645.7	3565.3	3434.2	3406.7	3453.2	3489.2	3463.8
27.5°	4022.1	3984.0	3958.6	3857.1	3804.3	3666.8	3635.1	3618.2	3626.6	3641.4
30°	4290.6	4311.8	4254.7	4182.8	4049.6	3910.0	3836.0	3821.2	3791.6	3766.2
32.5°	4673.4	4641.7	4607.8	4561.3	4447.1	4263.1	4191.2	4136.3	4047.4	3929.0
35°	4857.4	4948.3	4922.9	4798.1	4711.4	4641.7	4620.5	4535.9	4461.9	4275.8
37.5°	5164.0	5202.0	5166.1	5125.9	5085.7	5011.7	4986.4	5009.6	4863.7	4557.1
40°	5362.8	5443.1	5517.1	5405.1	5396.6	5411.4	5254.9	5227.4	4927.1	4766.4
42.5°	5768.8	5802.6	5817.4	5813.2	5861.8	5861.8	5563.7	5504.4	5290.9	5159.8
45°	6305.9	6333.4	6386.3	6424.3	6369.3	6396.8	5971.8	5948.5	5758.2	5732.8
47.5°	6771.1	6836.7	6955.1	7067.2	7139.1	7046.0	6580.8	6415.9	6367.2	6519.5
50°	7177.1	7098.9	7375.9	7490.1	7805.2	7959.6	7253.3	7187.7	7109.5	7401.3
52.5°	7217.3	7323.0	7714.3	7942.6	8591.8	8877.3	8078.0	8050.5	7955.3	8291.6
55°	7504.9	7492.2	7885.5	8380.4	9152.2	9632.2	9152.2	9135.3	8928.1	9247.4
57.5°	7456.3	7585.3	7896.1	8587.6	9657.6	10442.2	10397.8	10281.4	9991.7	10251.8
60°	7291.3	7325.2	7703.7	8581.3	9951.6	11273.2	11742.7	11765.9	11173.8	11381.1
62.5°	6356.6	6434.9	6914.9	7906.7	9742.2	11846.3	13055.9	12973.4	12499.7	12262.9
65°	5056.1	4977.9	5477.0	6549.1	8439.6	11440.3	13631.1	13937.7	13193.3	12759.8
67.5°	3100.1	3081.0	3561.1	4506.3	6314.4	9735.9	13172.2	13411.1	13000.9	12654.1
70°	1596.6	1547.9	1848.2	2514.3	3969.2	7143.3	11463.5	11698.3	12089.5	11349.3
72.5°	744.4	733.8	894.5	1237.1	2021.6	4199.7	8877.3	9046.5	9871.2	9568.8
75°	437.7	444.1	535.0	647.1	985.4	1979.3	5891.4	6219.2	7113.7	6895.9
77.5°	327.8	327.8	380.6	450.4	575.2	765.5	2907.6	3341.2	4159.5	3740.8
80°	241.1	245.3	291.8	338.3	399.7	395.4	1154.6	1353.4	1907.4	1630.4
82.5°	188.2	194.5	226.3	251.6	281.2	239.0	473.7	509.6	784.5	623.8
85°	131.1	135.3	177.6	171.3	171.3	133.2	196.7	207.2	310.9	296.1
87.5°	31.7	35.9	86.7	95.2	71.9	40.2	61.3	69.8	112.1	129.0
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°
2425.5	0°	2425.5	2425.5	2425.5	2425.5	2425.5	2425.5	2425.5	2425.5	2425.5	2425.5
2467.8	2.5°	2436.1	2444.5	2480.5	2461.5	2472.0	2427.6	2463.6	2434.0	2459.3	2446.7
2486.8	5°	2503.7	2484.7	2505.9	2491.1	2491.1	2508.0	2533.4	2514.3	2552.4	2535.5
2501.6	7.5°	2531.2	2533.4	2546.0	2548.2	2537.6	2590.5	2592.6	2586.2	2622.2	2613.7
2603.1	10°	2598.9	2601.0	2624.3	2637.0	2626.4	2645.4	2624.3	2607.4	2605.3	2596.8
2683.5	12.5°	2706.8	2727.9	2723.7	2734.2	2736.4	2656.0	2607.4	2524.9	2514.3	2524.9
2801.9	15°	2806.1	2797.7	2801.9	2823.1	2734.2	2605.3	2518.6	2448.8	2453.0	2455.1
2956.3	17.5°	2924.6	2930.9	2937.3	2840.0	2677.2	2524.9	2448.8	2448.8	2427.6	2436.1
3064.1	20°	3059.9	3034.5	2979.5	2842.1	2577.8	2431.9	2408.6	2408.6	2383.2	2366.3
3180.4	22.5°	3165.6	3114.9	3032.4	2776.5	2488.9	2395.9	2338.8	2298.6	2269.0	2235.2
3309.4	25°	3233.3	3205.8	3045.1	2708.9	2423.4	2300.7	2216.2	2154.8	2116.8	2072.4
3410.9	27.5°	3336.9	3284.1	3081.0	2630.6	2351.5	2205.6	2074.5	1979.3	1907.4	1860.9
3565.3	30°	3476.5	3400.4	3055.7	2518.6	2241.5	2040.6	1886.3	1763.6	1681.1	1643.1
3711.2	32.5°	3590.7	3491.3	3034.5	2417.0	2118.9	1873.6	1668.5	1543.7	1497.2	1448.5
3956.5	35°	3808.5	3611.8	3019.7	2360.0	2008.9	1706.5	1490.8	1383.0	1323.8	1251.9
4102.4	37.5°	3975.5	3821.2	2983.8	2241.5	1867.2	1543.7	1355.5	1258.2	1169.4	1093.3
4440.8	40°	4237.8	4113.0	2985.9	2074.5	1700.2	1404.1	1249.8	1148.3	1036.2	970.6
4941.9	42.5°	4730.5	4400.6	2998.6	1941.3	1512.0	1289.9	1154.6	1034.1	922.0	867.0
5512.9	45°	5335.3	4796.0	2920.3	1820.7	1319.5	1182.1	1040.4	919.9	848.0	807.8
6289.0	47.5°	6031.0	5183.0	2814.6	1594.4	1158.8	1067.9	934.7	864.9	812.0	788.8
7289.2	50°	6809.2	5737.1	2785.0	1387.2	1034.1	970.6	883.9	831.1	795.1	767.6
8416.3	52.5°	7811.5	6382.0	2725.8	1173.6	926.2	892.4	864.9	828.9	797.2	774.0
9467.3	55°	8769.5	7096.8	2662.3	998.1	850.1	854.3	869.1	837.4	809.9	774.0
10645.2	57.5°	9847.9	7826.3	2427.6	869.1	793.0	835.3	864.9	828.9	801.5	774.0
11850.5	60°	10514.1	8236.6	1968.7	757.0	742.2	799.3	839.5	801.5	771.8	782.4
12404.6	62.5°	10784.7	8020.9	1484.5	687.3	706.3	750.7	799.3	784.5	763.4	803.6
12398.2	65°	10323.7	7523.9	1061.6	628.1	657.7	702.1	763.4	780.3	786.7	864.9
11387.4	67.5°	9186.1	6551.2	780.3	579.4	606.9	672.5	788.8	816.3	812.0	909.3
9556.1	70°	7350.5	5123.8	609.0	539.2	587.9	695.7	824.7	824.7	795.1	909.3
7289.2	72.5°	5348.0	3611.8	524.4	492.7	539.2	638.6	820.5	818.4	780.3	831.1
4641.7	75°	3237.5	2102.0	463.1	446.2	463.1	547.7	784.5	771.8	719.0	714.8
2233.1	77.5°	1613.5	1057.3	378.5	395.4	403.9	458.9	689.4	708.4	636.5	619.6
881.8	80°	680.9	461.0	315.1	340.5	340.5	387.0	573.1	585.8	528.7	496.9
348.9	82.5°	310.9	264.3	268.6	296.1	277.0	300.3	454.7	469.5	429.3	376.4
148.0	85°	131.1	150.1	205.1	232.6	205.1	194.5	313.0	329.9	279.1	232.6
63.4	87.5°	59.2	82.5	129.0	169.2	103.6	90.9	167.1	173.4	139.6	103.6
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>
2425.5
2423.4
2512.2
2601.0
2596.8
2529.1
2484.7
2438.2
2340.9
2216.2
2080.8
1882.0
1664.2
1446.4
1245.5
1095.4
977.0
871.2
816.3
784.5
771.8
771.8
771.8
771.8
774.0
793.0
864.9
915.6
890.3
801.5
706.3
609.0
486.4
367.9
234.7
97.3
0.0

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