

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: P477885

Luminaire Tested: **IFLD-S-SA3C-827-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477885
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-827-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens
Light Source: (48) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

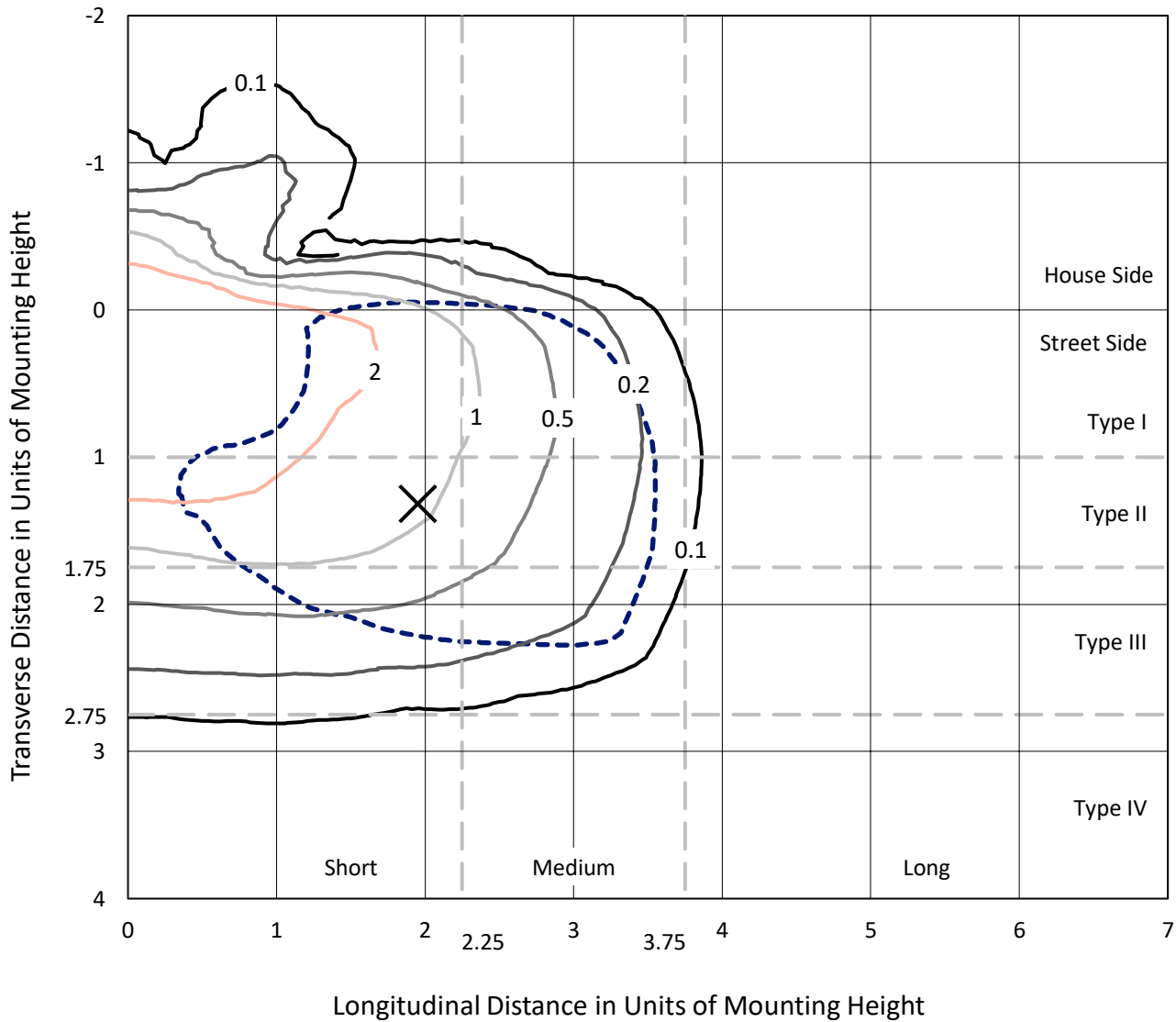
Lumens per Lamp: N/A
Luminaire Lumens: 15295.2 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 160.8
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

REPORT NUMBER: P477885
 CATALOG NUMBER: IFLD-S-SA3C-827-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

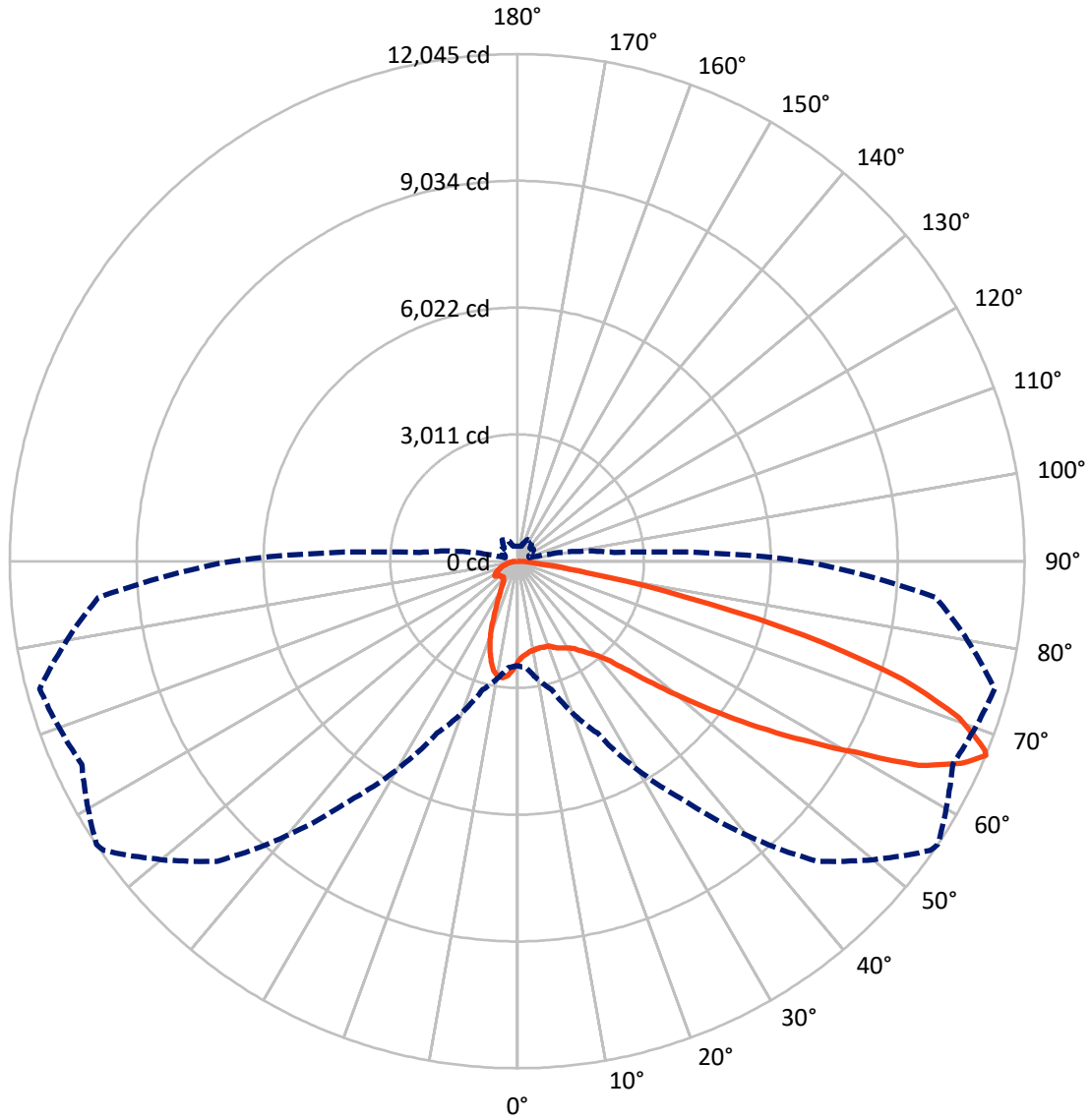
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type III - Short - N/A

REPORT NUMBER: P477885
CATALOG NUMBER: IFLD-S-SA3C-827-U-T3R

Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

REPORT NUMBER: P477885
 CATALOG NUMBER: IFLD-S-SA3C-827-U-T3R

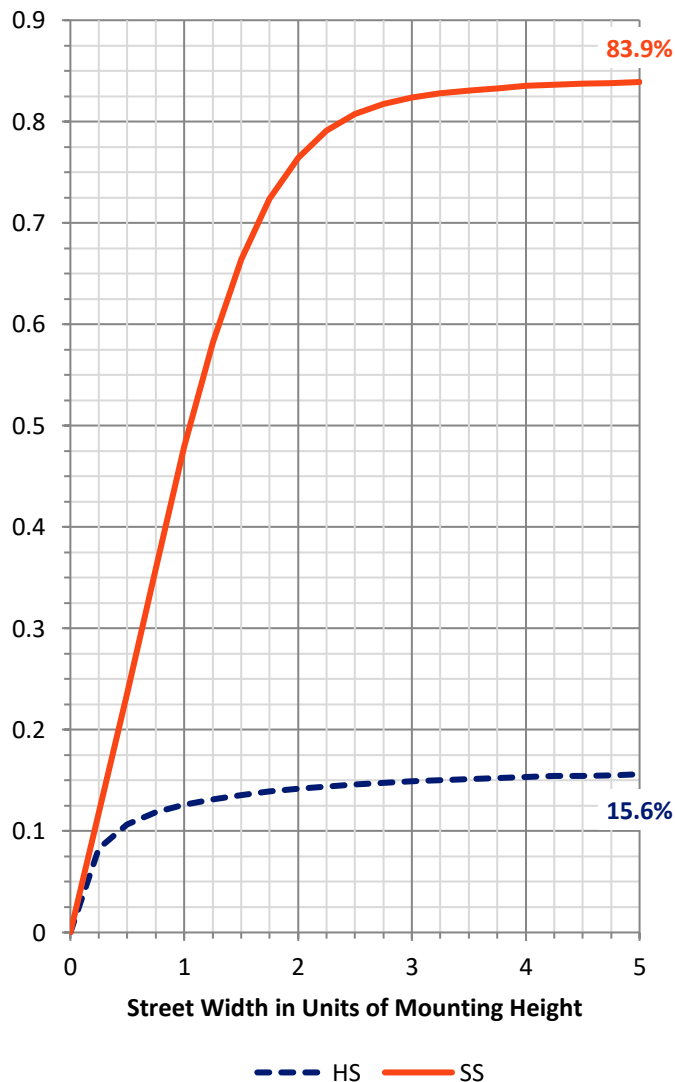
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2421.4	0.0	2421.4
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	12873.8	0.0	12873.8
	% Fixture	84.2	0.0	84.2
Total	Lumens	15295.2	0.0	15295.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.3	1.5
10°-20°	625.5	4.1
20°-30°	980.9	6.4
30°-40°	1400.3	9.2
40°-50°	2113.5	13.8
50°-60°	3364.3	22.0
60°-70°	4301.0	28.1
70°-80°	2097.0	13.7
80°-90°	183.4	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°	15295.2	100.0
0°-180°	15295.2	100.0

Coefficient of Utilization

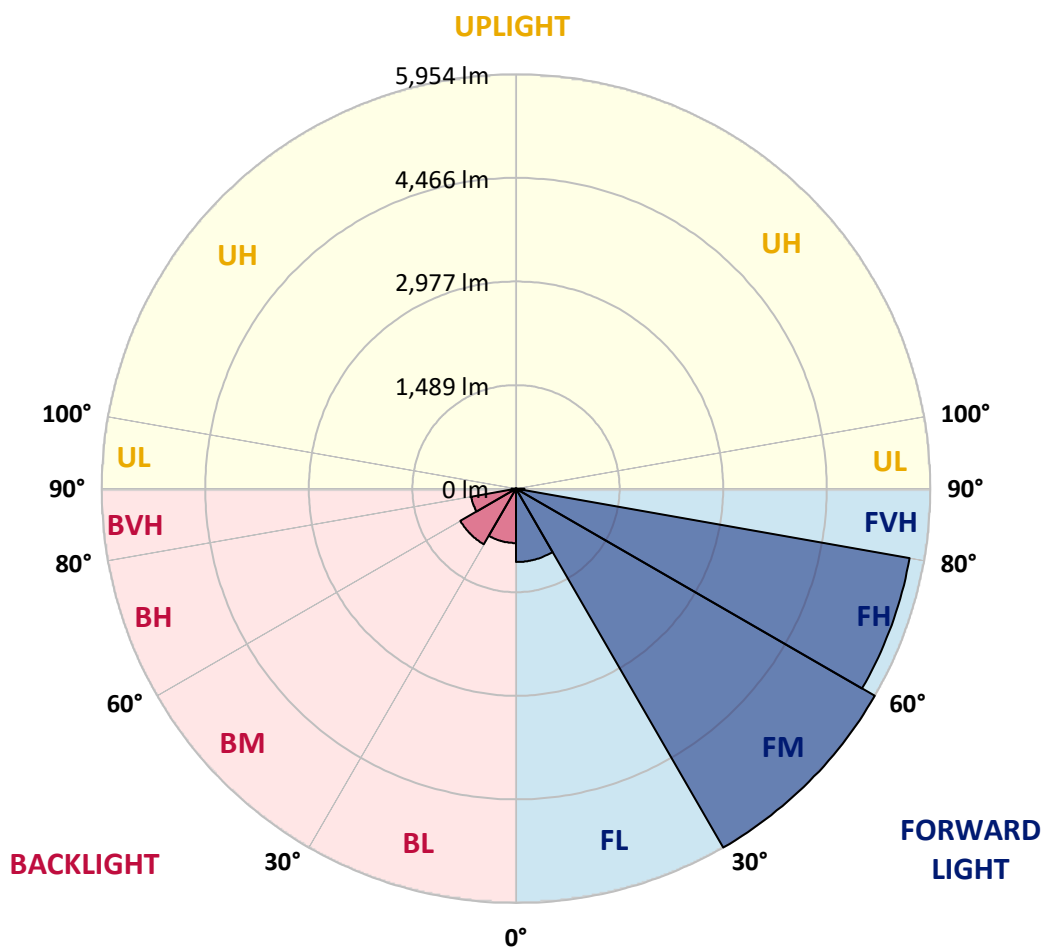


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1054.0	6.9			
FM (30°-60°)	5954.3	38.9			
FH (60°-80°)	5743.7	37.6			G3/7500
FVH (80°-90°)	121.8	0.8			G2/225
BL (0°-30°)	781.7	5.1	B2/1000		
BM (30°-60°)	923.8	6.0	B1/1000		
BH (60°-80°)	654.3	4.3	B2/1000		G2/1000
BVH (80°-90°)	61.6	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





REPORT NUMBER: P477885
 CATALOG NUMBER: IFLD-S-SA3C-827-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	2379.9	2379.9	2379.9	2379.9	2379.9	2379.9	2379.9	2379.9	2379.9	2379.9
2.5°	2186.2	2177.2	2188.0	2177.2	2225.7	2254.4	2263.3	2275.9	2320.7	2363.8
5°	2094.7	2055.3	2098.3	2112.7	2116.3	2164.7	2214.9	2223.9	2247.2	2317.1
7.5°	1942.3	1987.1	1971.0	2014.0	2058.9	2107.3	2189.8	2166.5	2252.6	2318.9
10°	1910.0	1913.6	1931.5	1947.7	1987.1	2049.9	2164.7	2150.3	2238.2	2379.9
12.5°	1942.3	1942.3	1936.9	1924.4	1969.2	2030.2	2121.6	2128.8	2266.9	2397.8
15°	2055.3	2076.8	2019.4	2028.4	2010.4	2030.2	2110.9	2127.0	2277.7	2412.2
17.5°	2331.5	2324.3	2256.1	2161.1	2082.2	2069.6	2125.2	2143.2	2266.9	2453.4
20°	2600.5	2586.1	2467.8	2369.1	2213.1	2139.6	2148.5	2150.3	2284.8	2480.3
22.5°	2900.0	2937.7	2808.5	2607.7	2414.0	2231.0	2195.2	2223.9	2326.1	2494.7
25°	3369.9	3289.2	3178.0	2914.3	2602.3	2372.7	2272.3	2286.6	2365.5	2530.5
27.5°	3708.8	3676.6	3502.6	3289.2	2865.9	2483.9	2313.5	2340.4	2437.3	2528.8
30°	4035.2	4035.2	3929.4	3610.2	3143.9	2670.4	2401.4	2388.9	2403.2	2525.2
32.5°	4417.2	4365.2	4212.8	4001.2	3493.6	2840.8	2471.4	2474.9	2474.9	2591.5
35°	4618.1	4702.4	4600.2	4255.8	3760.8	3124.2	2639.9	2613.0	2593.3	2665.1
37.5°	4912.2	4962.5	4854.8	4652.2	4092.6	3353.7	2788.8	2767.3	2652.5	2722.4
40°	5089.8	5080.8	5077.2	4984.0	4532.0	3624.5	3007.6	2952.0	2797.8	2925.1
42.5°	5190.2	5172.3	5392.9	5335.5	4946.3	4022.7	3282.0	3251.5	3081.1	3285.6
45°	5303.2	5435.9	5617.1	5778.5	5428.7	4582.2	3746.5	3703.5	3551.0	3811.1
47.5°	5401.8	5565.0	5796.4	5968.6	5864.6	5190.2	4320.4	4331.2	4230.7	4497.9
50°	5566.8	5583.0	5896.8	6244.8	6325.5	5751.6	5091.6	5073.6	5028.8	5403.6
52.5°	5516.6	5565.0	5961.4	6406.2	6538.9	6345.2	5920.1	5974.0	5914.8	6386.4
55°	4698.8	4844.1	5921.9	6576.5	7044.6	7015.9	6985.5	6949.6	6946.0	7491.2
57.5°	4327.6	4445.9	5217.1	6764.9	7586.3	7797.9	7995.2	8034.6	8032.8	8691.0
60°	4083.7	4205.6	4932.0	6662.6	8047.2	8821.9	9200.4	9205.7	9195.0	9973.3
62.5°	3606.6	3725.0	4438.8	6103.1	8174.5	9767.1	10610.0	10679.9	10186.7	11078.1
65°	3032.7	3129.6	3759.1	5247.6	7835.5	10367.9	11669.9	11587.4	11022.5	11709.4
67°	2480.3	2544.9	3158.2	4505.1	6949.6	10079.1	11976.6	12044.7	11408.1	11736.3
67.5°	2322.5	2381.7	2961.0	4252.2	6612.4	9860.3	11987.4	11976.6	11415.2	11741.7
70°	1612.3	1637.4	2017.6	2925.1	4871.0	8330.5	11112.2	11137.3	10936.4	11105.0
72.5°	1068.9	1106.6	1348.7	1843.7	2871.3	6061.8	9288.2	9557.2	9429.9	9105.3
75°	688.7	710.2	882.4	1097.6	1413.2	3452.4	6861.7	7041.0	6748.7	5631.4
77.5°	385.6	408.9	532.7	667.2	688.7	1436.5	3854.1	4076.5	3454.2	2392.4
80°	240.3	270.8	401.7	396.4	328.2	527.3	1589.0	1702.0	1380.9	823.2
82.5°	181.1	204.5	310.3	278.0	184.7	234.9	595.4	638.5	505.8	317.4
85°	123.7	156.0	224.2	172.2	96.8	113.0	236.7	254.7	231.4	154.2
87.5°	44.8	66.4	116.6	86.1	43.0	34.1	77.1	86.1	82.5	69.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P477885
 CATALOG NUMBER: IFLD-S-SA3C-827-U-T3R

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2379.9	0°	2379.9	2379.9	2379.9	2379.9	2379.9	2379.9	2379.9	2379.9	2379.9	2379.9
2401.4	2.5°	2435.5	2460.6	2473.2	2546.7	2577.2	2571.8	2579.0	2589.7	2600.5	2614.8
2431.9	5°	2455.2	2532.3	2573.6	2659.7	2717.1	2692.0	2724.2	2715.3	2702.7	2700.9
2487.5	7.5°	2519.8	2618.4	2742.2	2765.5	2790.6	2727.8	2674.0	2600.5	2582.6	2519.8
2534.1	10°	2634.6	2715.3	2865.9	2874.9	2763.7	2602.3	2482.1	2329.7	2327.9	2236.4
2605.9	12.5°	2744.0	2835.4	2957.4	2905.4	2639.9	2419.4	2223.9	2057.1	1987.1	1940.5
2648.9	15°	2812.1	2962.8	3027.3	2803.1	2422.9	2125.2	1872.4	1693.0	1621.3	1587.2
2702.7	17.5°	2874.9	3084.7	3056.0	2623.8	2155.7	1822.1	1520.8	1364.8	1345.1	1320.0
2788.8	20°	2961.0	3129.6	2953.8	2390.7	1852.6	1431.2	1239.3	1163.9	1181.9	1192.6
2797.8	22.5°	3041.7	3152.9	2824.7	2136.0	1463.4	1133.5	1038.4	1054.5	1081.4	1117.3
2819.3	25°	3077.5	3190.5	2650.7	1784.5	1113.7	954.1	932.6	959.5	1004.3	1006.1
2849.8	27.5°	3100.9	3163.6	2440.9	1441.9	880.6	833.9	866.2	886.0	891.3	912.9
2914.3	30°	3142.1	3108.0	2175.4	1031.2	738.9	740.7	781.9	781.9	781.9	798.1
2978.9	32.5°	3213.8	3070.4	1865.2	753.2	636.7	694.1	683.3	679.7	672.5	652.8
3061.4	35°	3258.7	2968.1	1472.4	557.8	572.1	636.7	633.1	577.5	484.2	437.6
3271.2	37.5°	3351.9	2916.1	1083.2	430.4	534.4	608.0	588.2	453.7	351.5	306.7
3531.3	40°	3552.8	2882.1	749.7	376.6	509.3	593.6	525.5	387.4	269.0	190.1
3933.0	42.5°	3798.5	2883.9	509.3	355.1	511.1	624.1	505.8	331.8	190.1	152.4
4469.3	45°	4128.5	2857.0	349.7	355.1	543.4	674.3	518.3	301.3	184.7	193.7
5141.8	47.5°	4483.6	2880.3	260.0	322.8	548.8	676.1	473.5	295.9	177.6	224.2
5873.5	50°	4897.9	2903.6	215.2	297.7	550.6	654.6	435.8	288.7	184.7	236.7
6712.8	52.5°	5324.7	2977.1	182.9	281.6	572.1	645.6	435.8	299.5	184.7	206.2
7781.7	55°	5961.4	3165.4	263.6	351.5	651.0	704.8	536.2	419.7	258.3	265.4
8805.8	57.5°	6664.4	3359.1	294.1	369.4	669.0	634.9	577.5	462.7	272.6	274.4
9602.1	60°	7127.1	3366.3	292.3	360.5	625.9	548.8	564.9	487.8	278.0	234.9
10095.3	62.5°	7311.9	3147.5	304.9	360.5	582.9	512.9	579.3	525.5	287.0	294.1
10235.2	65°	7102.0	2695.5	294.1	322.8	512.9	459.1	582.9	532.7	313.9	295.9
9984.1	67°	6773.8	2322.5	299.5	306.7	477.1	435.8	613.4	559.6	364.1	355.1
9853.2	67.5°	6680.6	2223.9	297.7	297.7	464.5	428.6	620.5	559.6	371.2	367.7
8696.4	70°	5887.9	1802.4	304.9	294.1	410.7	407.1	660.0	590.0	426.8	430.4
6388.2	72.5°	4481.8	1366.6	303.1	294.1	356.9	389.2	665.4	609.8	464.5	430.4
3577.9	75°	2546.7	817.8	267.2	256.5	281.6	339.0	622.3	581.1	451.9	385.6
1429.4	77.5°	1052.7	421.5	245.7	231.4	233.1	276.2	518.3	541.6	430.4	328.2
477.1	80°	392.8	252.9	197.3	184.7	179.3	202.7	369.4	432.2	367.7	269.0
209.8	82.5°	204.5	157.8	134.5	134.5	122.0	129.1	199.1	287.0	278.0	184.7
84.3	85°	104.0	89.7	77.1	75.3	68.2	61.0	100.4	170.4	159.6	102.2
37.7	87.5°	55.6	50.2	32.3	30.5	25.1	16.1	17.9	34.1	55.6	44.8
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>
2379.9
2629.2
2717.1
2541.3
2232.8
1929.7
1580.0
1332.5
1180.1
1097.6
1024.1
932.6
816.0
642.1
459.1
304.9
184.7
148.9
197.3
249.3
274.4
211.6
279.8
265.4
242.1
297.7
290.5
349.7
360.5
398.1
382.0
344.3
310.3
245.7
145.3
84.3
32.3
0.0

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