

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: P477553

Luminaire Tested: **IFLD-M-SA4B-830-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477553
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-830-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

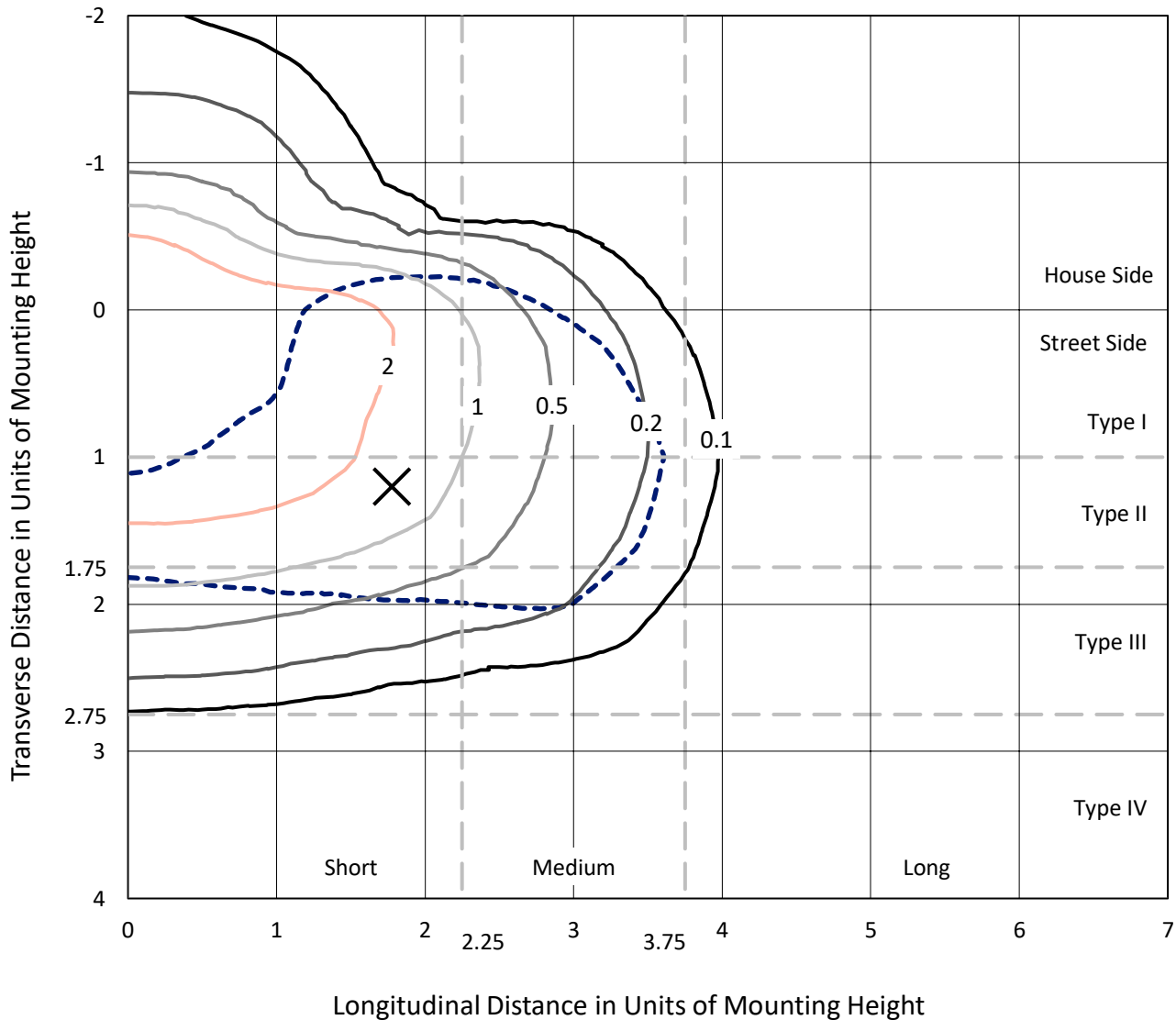
Lumens per Lamp: N/A
Luminaire Lumens: 18484.3 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 166.1
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

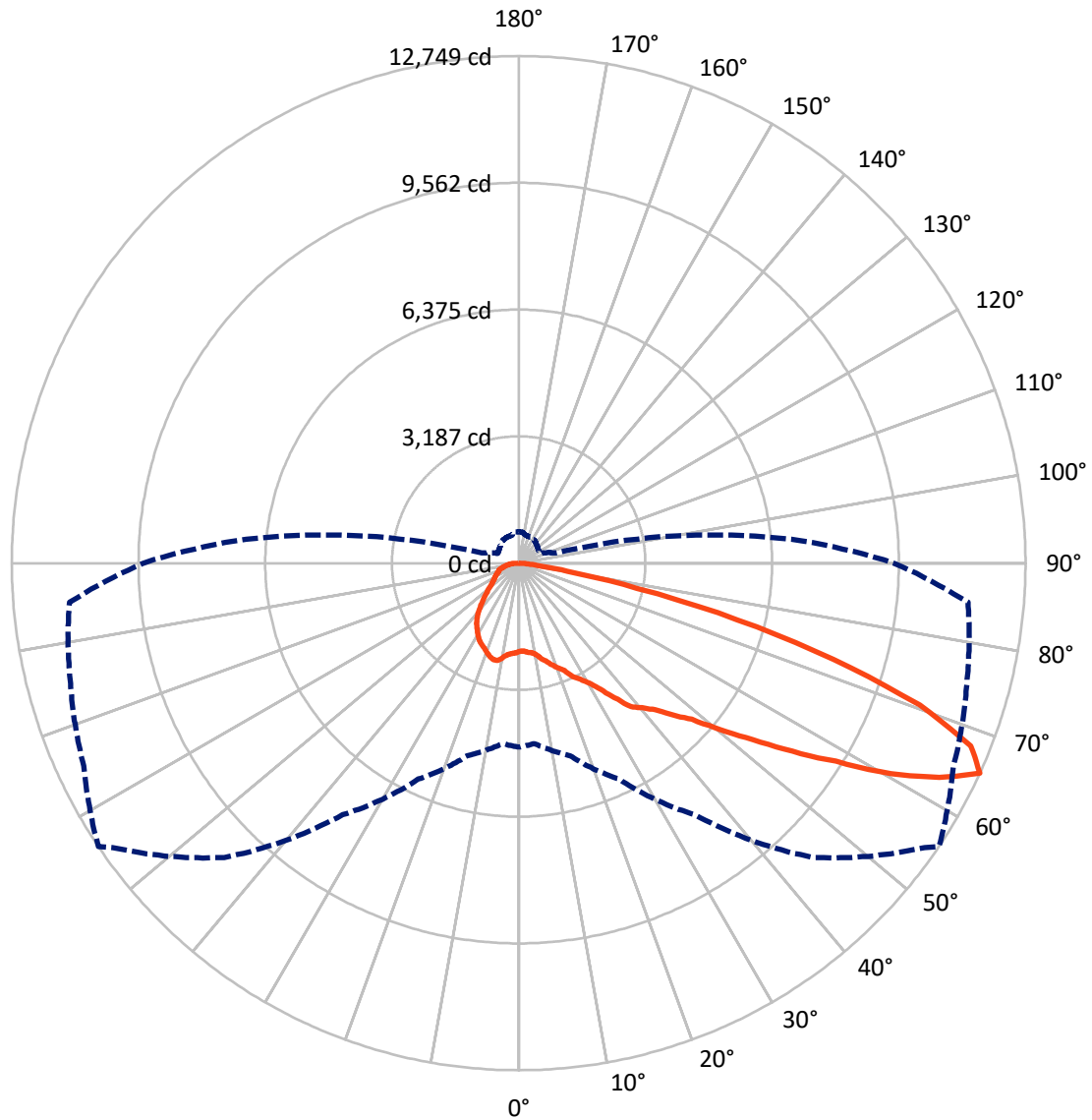
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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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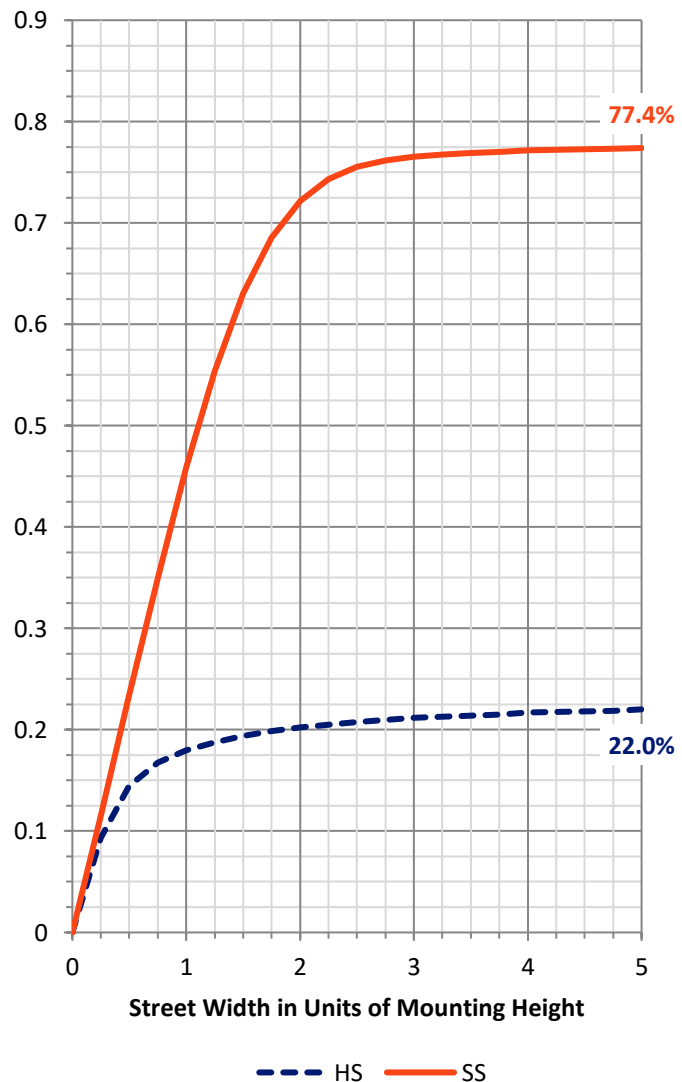
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4145.4	0.0	4145.4
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	14338.9	0.0	14338.9
	% Fixture	77.6	0.0	77.6
Total	Lumens	18484.3	0.0	18484.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.9	1.2
10°-20°	713.9	3.9
20°-30°	1271.2	6.9
30°-40°	1903.5	10.3
40°-50°	2820.3	15.3
50°-60°	4345.7	23.5
60°-70°	4919.9	26.6
70°-80°	2041.8	11.0
80°-90°	248.1	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°	18484.3	100.0
0°-180°	18484.3	100.0

Coefficient of Utilization

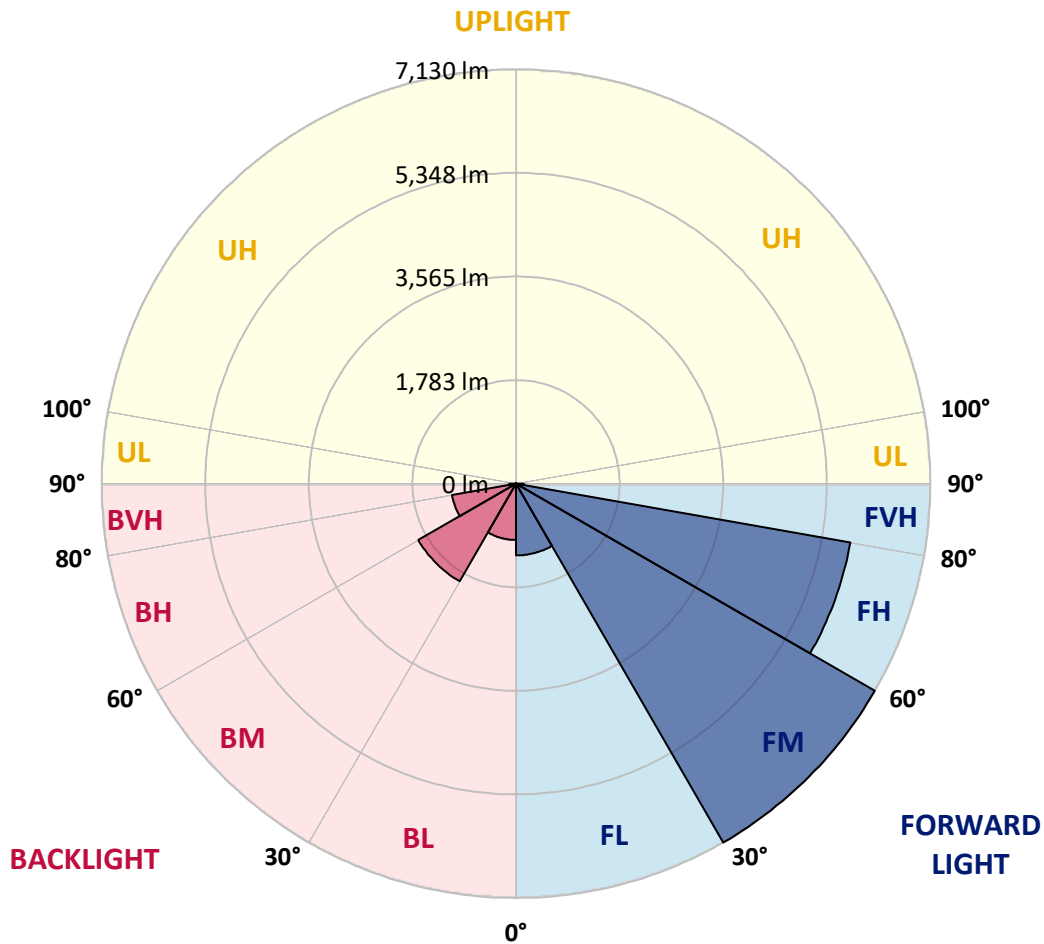


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1235.3	6.7			
FM (30°-60°)	7130.4	38.6			
FH (60°-80°)	5842.3	31.6			G3/7500
FVH (80°-90°)	130.8	0.7			G2/225
BL (0°-30°)	969.7	5.2	B2/1000		
BM (30°-60°)	1939.2	10.5	B2/2500		
BH (60°-80°)	1119.4	6.1	B3/2500		G3/2500
BVH (80°-90°)	117.2	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°	2218.6	2218.6	2218.6	2218.6	2218.6	2218.6	2218.6	2218.6	2218.6	2218.6
2.5°	2160.6	2172.2	2164.5	2187.7	2207.0	2207.0	2222.5	2210.9	2226.4	2247.7
5°	2232.2	2185.8	2210.9	2222.5	2216.7	2226.4	2210.9	2249.6	2224.5	2265.1
7.5°	2249.6	2267.0	2288.3	2268.9	2286.3	2276.7	2278.6	2272.8	2259.3	2292.2
10°	2377.3	2352.1	2400.5	2371.5	2367.6	2363.7	2356.0	2327.0	2359.9	2361.8
12.5°	2524.3	2501.1	2499.1	2475.9	2506.9	2450.8	2462.4	2446.9	2452.7	2460.4
15°	2630.7	2621.0	2665.5	2638.4	2597.8	2572.6	2599.7	2557.2	2578.4	2574.6
17.5°	2841.5	2839.6	2806.7	2762.2	2739.0	2702.2	2696.4	2679.0	2694.5	2686.7
20°	2988.5	3009.8	3015.6	2963.4	2874.4	2833.8	2824.1	2810.5	2828.0	2822.2
22.5°	3212.9	3180.0	3205.1	3114.2	3081.3	2984.6	2949.8	2930.5	3013.6	2992.4
25°	3356.0	3390.8	3365.7	3334.7	3261.2	3141.3	3116.2	3158.7	3191.6	3168.4
27.5°	3679.0	3644.2	3621.0	3528.2	3479.8	3354.1	3325.1	3309.6	3317.3	3330.9
30°	3924.7	3944.0	3891.8	3826.1	3704.2	3576.5	3508.8	3495.3	3468.2	3445.0
32.5°	4274.8	4245.8	4214.9	4172.3	4067.8	3899.6	3833.8	3783.5	3702.3	3593.9
35°	4443.1	4526.3	4503.1	4388.9	4309.6	4245.8	4226.5	4149.1	4081.4	3911.2
37.5°	4723.6	4758.4	4725.5	4688.8	4652.0	4584.3	4561.1	4582.4	4448.9	4168.4
40°	4905.4	4978.9	5046.6	4944.1	4936.3	4949.9	4806.7	4781.6	4506.9	4359.9
42.5°	5276.8	5307.7	5321.3	5317.4	5361.9	5361.9	5089.2	5035.0	4839.6	4719.7
45°	5768.1	5793.2	5841.6	5876.4	5826.1	5851.3	5462.5	5441.2	5267.1	5243.9
47.5°	6193.6	6253.6	6361.9	6464.4	6530.2	6445.1	6019.6	5868.7	5824.2	5963.5
50°	6565.0	6493.5	6746.9	6851.3	7139.5	7280.7	6634.7	6574.7	6503.1	6770.1
52.5°	6601.8	6698.5	7056.3	7265.2	7859.1	8120.2	7389.0	7363.9	7276.9	7584.4
55°	6864.8	6853.2	7213.0	7665.7	8371.7	8810.8	8371.7	8356.2	8166.6	8458.7
57.5°	6820.4	6938.4	7222.7	7855.2	8834.0	9551.6	9511.0	9404.6	9139.6	9377.5
60°	6669.5	6700.4	7046.7	7849.4	9102.8	10311.8	10741.2	10762.5	10220.9	10410.4
62.5°	5814.5	5886.1	6325.2	7232.4	8911.3	10836.0	11942.4	11867.0	11433.7	11217.0
65°	4624.9	4553.4	5009.8	5990.5	7719.8	10464.6	12468.5	12749.0	12068.1	11671.6
67.5°	2835.7	2818.3	3257.4	4122.0	5775.8	8905.5	12048.8	12267.4	11892.1	11574.9
70°	1460.4	1415.9	1690.6	2299.9	3630.7	6534.1	10485.9	10700.6	11058.4	10381.4
72.5°	680.9	671.2	818.2	1131.6	1849.2	3841.5	8120.2	8275.0	9029.3	8752.7
75°	400.4	406.2	489.4	591.9	901.4	1810.5	5389.0	5688.8	6507.0	6307.8
77.5°	299.8	299.8	348.2	412.0	526.1	700.2	2659.7	3056.2	3804.8	3421.8
80°	220.5	224.4	266.9	309.5	365.6	361.7	1056.1	1238.0	1744.7	1491.3
82.5°	172.2	178.0	207.0	230.2	257.3	218.6	433.3	466.2	717.6	570.6
85°	119.9	123.8	162.5	156.7	156.7	121.9	179.9	189.6	284.3	270.8
87.5°	29.0	32.9	79.3	87.0	65.8	36.8	56.1	63.8	102.5	118.0
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°
2218.6	0°	2218.6	2218.6	2218.6	2218.6	2218.6	2218.6	2218.6	2218.6	2218.6	2218.6
2257.3	2.5°	2228.3	2236.1	2268.9	2251.5	2261.2	2220.6	2253.5	2226.4	2249.6	2238.0
2274.7	5°	2290.2	2272.8	2292.2	2278.6	2278.6	2294.1	2317.3	2299.9	2334.7	2319.2
2288.3	7.5°	2315.4	2317.3	2328.9	2330.8	2321.2	2369.5	2371.5	2365.7	2398.5	2390.8
2381.1	10°	2377.3	2379.2	2400.5	2412.1	2402.4	2419.8	2400.5	2385.0	2383.1	2375.3
2454.6	12.5°	2475.9	2495.3	2491.4	2501.1	2503.0	2429.5	2385.0	2309.6	2299.9	2309.6
2563.0	15°	2566.8	2559.1	2563.0	2582.3	2501.1	2383.1	2303.8	2239.9	2243.8	2245.7
2704.2	17.5°	2675.1	2680.9	2686.7	2597.8	2448.8	2309.6	2239.9	2239.9	2220.6	2228.3
2802.8	20°	2798.9	2775.7	2725.4	2599.7	2357.9	2224.5	2203.2	2203.2	2180.0	2164.5
2909.2	22.5°	2895.7	2849.2	2773.8	2539.7	2276.7	2191.6	2139.3	2102.6	2075.5	2044.6
3027.2	25°	2957.6	2932.4	2785.4	2477.8	2216.7	2104.5	2027.2	1971.1	1936.2	1895.6
3120.0	27.5°	3052.3	3004.0	2818.3	2406.3	2150.9	2017.5	1897.6	1810.5	1744.7	1702.2
3261.2	30°	3180.0	3110.4	2795.1	2303.8	2050.4	1866.6	1725.4	1613.2	1537.8	1503.0
3394.7	32.5°	3284.4	3193.5	2775.7	2210.9	1938.2	1713.8	1526.2	1412.0	1369.5	1325.0
3619.1	35°	3483.7	3303.8	2762.2	2158.7	1837.6	1561.0	1363.7	1265.0	1210.9	1145.1
3752.6	37.5°	3636.5	3495.3	2729.3	2050.4	1708.0	1412.0	1239.9	1150.9	1069.7	1000.0
4062.0	40°	3876.3	3762.2	2731.2	1897.6	1555.2	1284.4	1143.2	1050.3	947.8	887.8
4520.5	42.5°	4327.0	4025.3	2742.8	1775.7	1383.0	1179.9	1056.1	945.9	843.4	793.1
5042.7	45°	4880.3	4387.0	2671.3	1665.4	1207.0	1081.3	951.7	841.4	775.7	738.9
5752.6	47.5°	5516.6	4741.0	2574.6	1458.5	1060.0	976.8	855.0	791.1	742.8	721.5
6667.5	50°	6228.5	5247.8	2547.5	1268.9	945.9	887.8	808.5	760.2	727.3	702.2
7698.5	52.5°	7145.3	5837.7	2493.3	1073.5	847.2	816.3	791.1	758.2	729.2	708.0
8659.9	55°	8021.6	6491.5	2435.3	913.0	777.6	781.5	795.0	766.0	740.8	708.0
9737.3	57.5°	9008.1	7158.9	2220.6	795.0	725.4	764.1	791.1	758.2	733.1	708.0
10839.8	60°	9617.4	7534.1	1800.8	692.5	678.9	731.2	767.9	733.1	706.0	715.7
11346.6	62.5°	9865.0	7336.8	1357.9	628.6	646.1	686.7	731.2	717.6	698.3	735.0
11340.8	65°	9443.3	6882.3	971.0	574.5	601.6	642.2	698.3	713.8	719.6	791.1
10416.2	67.5°	8402.6	5992.5	713.8	530.0	555.1	615.1	721.5	746.6	742.8	831.8
8741.1	70°	6723.6	4686.8	557.1	493.2	537.7	636.4	754.4	754.4	727.3	831.8
6667.5	72.5°	4891.9	3303.8	479.7	450.7	493.2	584.2	750.5	748.6	713.8	760.2
4245.8	75°	2961.4	1922.7	423.6	408.1	423.6	501.0	717.6	706.0	657.7	653.8
2042.6	77.5°	1475.9	967.2	346.2	361.7	369.5	419.7	630.6	648.0	582.2	566.8
806.6	80°	622.8	421.7	288.2	311.4	311.4	354.0	524.2	535.8	483.6	454.6
319.2	82.5°	284.3	241.8	245.7	270.8	253.4	274.7	415.9	429.4	392.7	344.3
135.4	85°	119.9	137.3	187.6	212.8	187.6	178.0	286.3	301.8	255.3	212.8
58.0	87.5°	54.2	75.4	118.0	154.7	94.8	83.2	152.8	158.6	127.7	94.8
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>
2218.6
2216.7
2298.0
2379.2
2375.3
2313.4
2272.8
2230.3
2141.3
2027.2
1903.4
1721.5
1522.3
1323.1
1139.3
1002.0
893.6
796.9
746.6
717.6
706.0
706.0
706.0
706.0
708.0
725.4
791.1
837.6
814.3
733.1
646.1
557.1
444.9
336.6
214.7
89.0
0.0

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