

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: P477357

Luminaire Tested: **IFLD-M-SA4A-735-U-T3**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477357  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4A-735-U-T3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

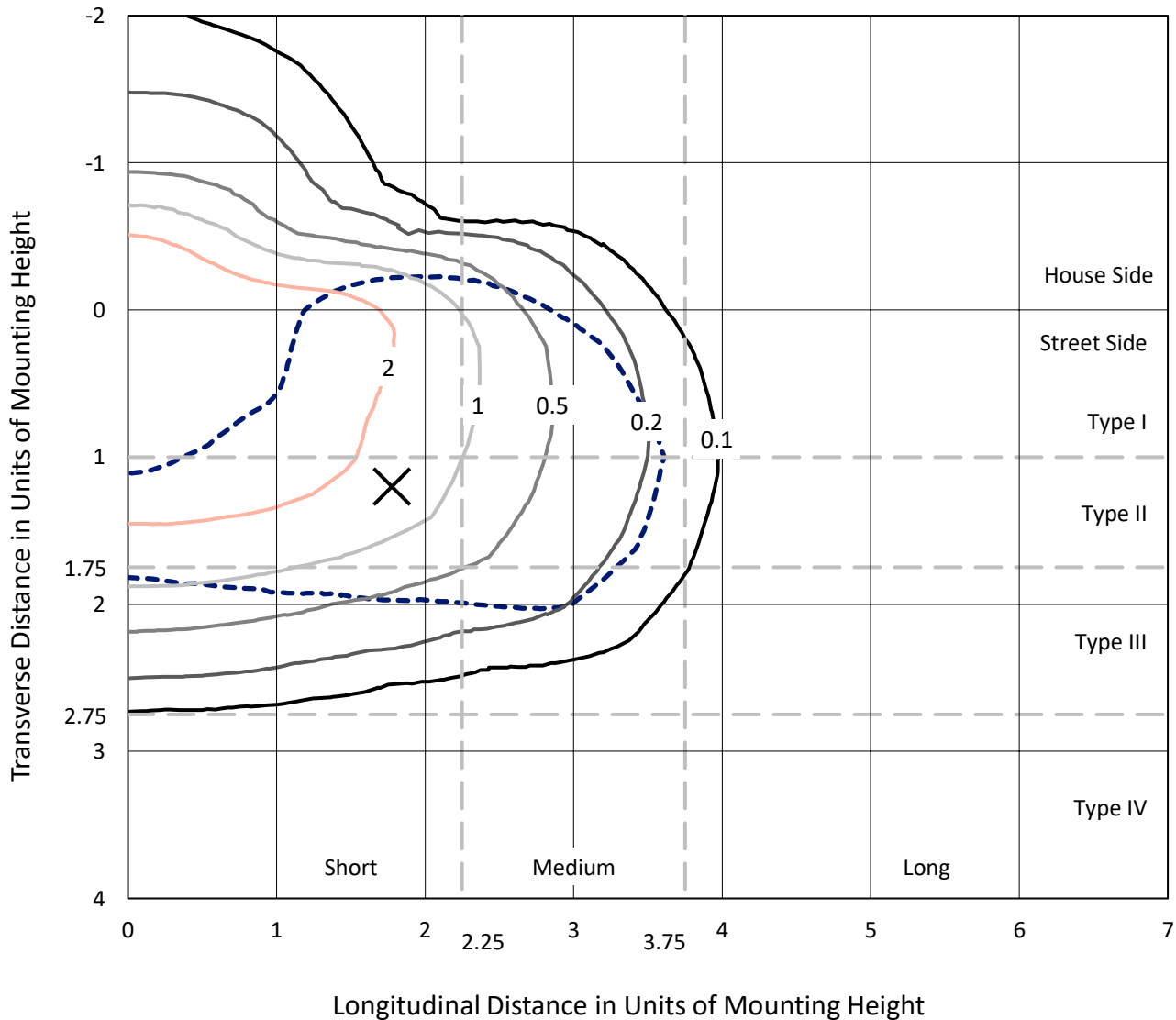
Lumens per Lamp: N/A  
Luminaire Lumens: 18551.7 lumens  
Efficiency: N/A  
Efficacy: 144.3 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 128.6  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

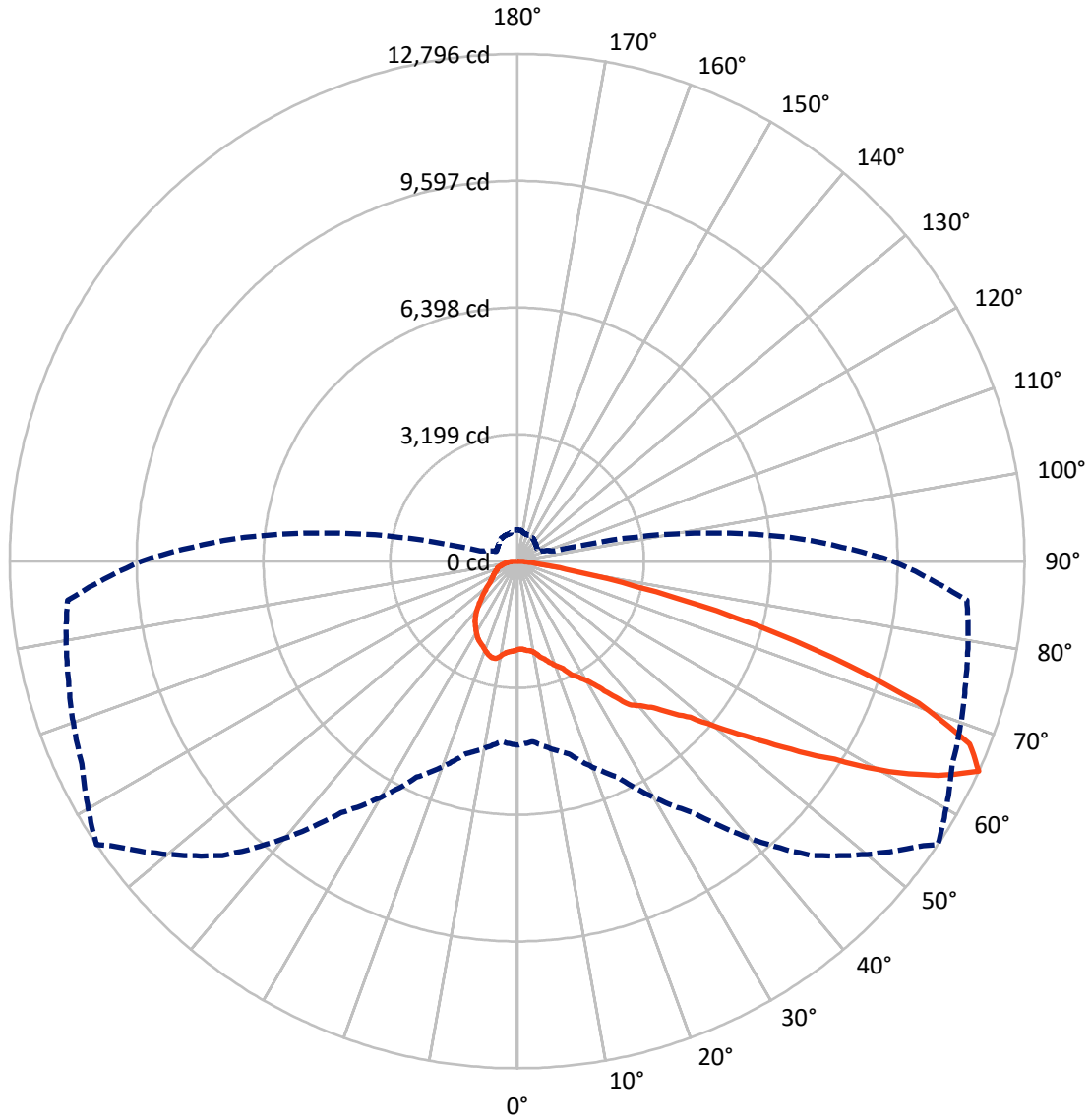
✕ Max cd  
 - - - 1/2 Max cd



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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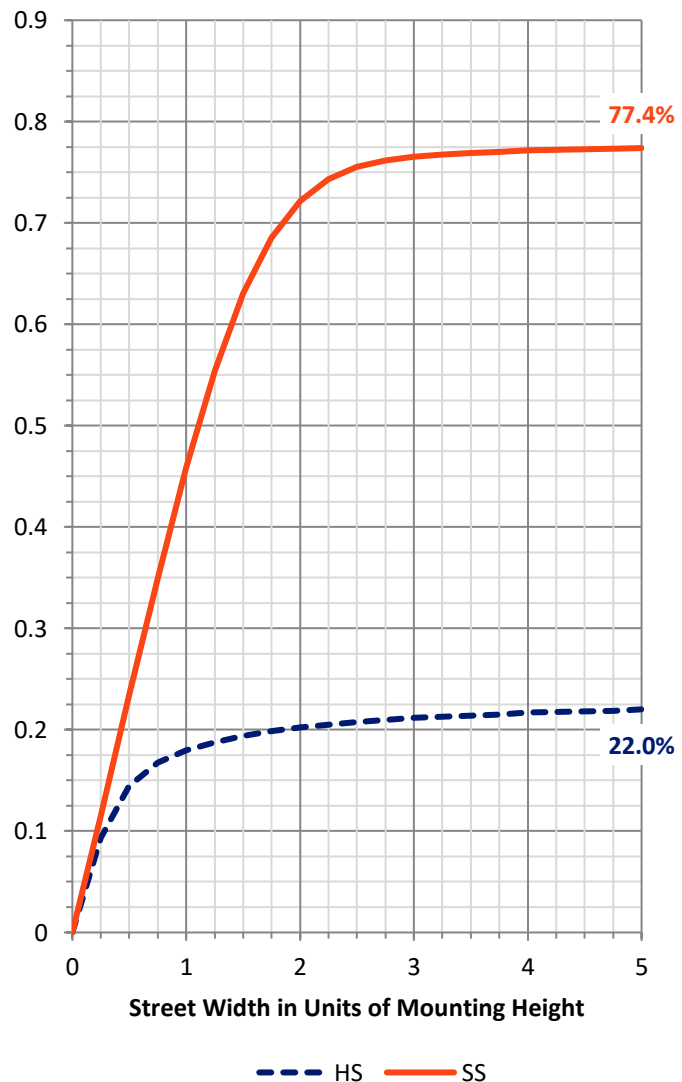
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4160.6	0.0	4160.6
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	14391.1	0.0	14391.1
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	18551.7	0.0	18551.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	220.7	1.2
10°-20°	716.5	3.9
20°-30°	1275.8	6.9
30°-40°	1910.5	10.3
40°-50°	2830.6	15.3
50°-60°	4361.6	23.5
60°-70°	4937.8	26.6
70°-80°	2049.3	11.0
80°-90°	249.0	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°	18551.7	100.0
0°-180°	18551.7	100.0

**Coefficient of Utilization**

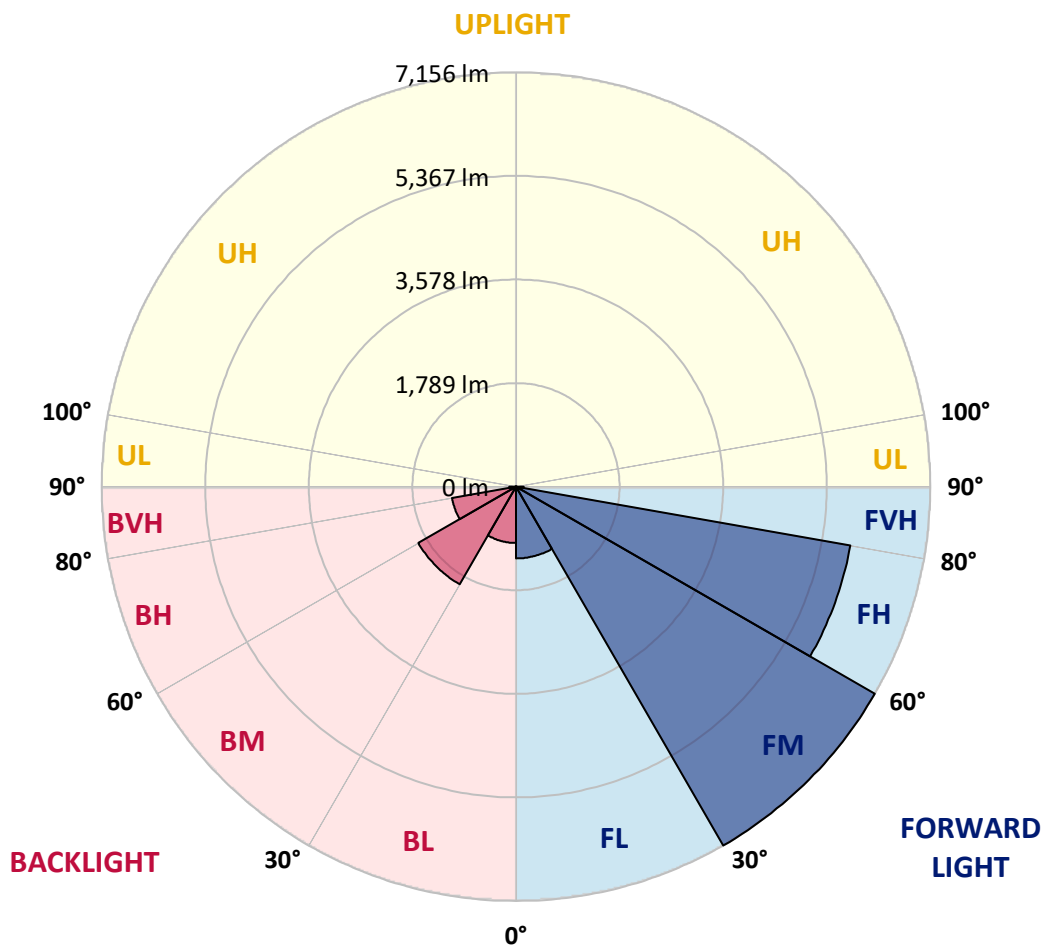


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1239.8	6.7			
FM (30°-60°)	7156.4	38.6			
FH (60°-80°)	5863.6	31.6			G3/7500
FVH (80°-90°)	131.3	0.7			G2/225
BL (0°-30°)	973.2	5.2	B2/1000		
BM (30°-60°)	1946.2	10.5	B2/2500		
BH (60°-80°)	1123.5	6.1	B3/2500		G3/2500
BVH (80°-90°)	117.6	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°	2226.7	2226.7	2226.7	2226.7	2226.7	2226.7	2226.7	2226.7	2226.7	2226.7
2.5°	2168.5	2180.1	2172.4	2195.7	2215.1	2215.1	2230.6	2219.0	2234.5	2255.9
5°	2240.3	2193.7	2219.0	2230.6	2224.8	2234.5	2219.0	2257.8	2232.6	2273.3
7.5°	2257.8	2275.3	2296.6	2277.2	2294.7	2285.0	2286.9	2281.1	2267.5	2300.5
10°	2385.9	2360.7	2409.2	2380.1	2376.2	2372.3	2364.6	2335.4	2368.5	2370.4
12.5°	2533.5	2510.2	2508.2	2484.9	2516.0	2459.7	2471.3	2455.8	2461.6	2469.4
15°	2640.2	2630.5	2675.2	2648.0	2607.2	2582.0	2609.2	2566.5	2587.8	2583.9
17.5°	2851.8	2849.9	2816.9	2772.3	2749.0	2712.1	2706.2	2688.8	2704.3	2696.5
20°	2999.4	3020.7	3026.6	2974.2	2884.9	2844.1	2834.4	2820.8	2838.3	2832.4
22.5°	3224.6	3191.6	3216.8	3125.6	3092.6	2995.5	2960.6	2941.2	3024.6	3003.3
25°	3368.2	3403.2	3378.0	3346.9	3273.1	3152.8	3127.5	3170.2	3203.2	3179.9
27.5°	3692.5	3657.5	3634.2	3541.0	3492.5	3366.3	3337.2	3321.7	3329.4	3343.0
30°	3939.0	3958.4	3906.0	3840.0	3717.7	3589.6	3521.6	3508.0	3480.8	3457.6
32.5°	4290.4	4261.3	4230.2	4187.5	4082.7	3913.8	3847.8	3797.3	3715.8	3607.0
35°	4459.3	4542.8	4519.5	4404.9	4325.3	4261.3	4241.9	4164.2	4096.3	3925.4
37.5°	4740.8	4775.7	4742.7	4705.8	4669.0	4601.0	4577.7	4599.1	4465.1	4183.6
40°	4923.3	4997.0	5065.0	4962.1	4954.3	4967.9	4824.3	4799.0	4523.4	4375.8
42.5°	5296.0	5327.1	5340.7	5336.8	5381.4	5381.4	5107.7	5053.3	4857.3	4736.9
45°	5789.1	5814.4	5862.9	5897.8	5847.4	5872.6	5482.4	5461.0	5286.3	5263.0
47.5°	6216.2	6276.4	6385.1	6488.0	6554.0	6468.6	6041.5	5890.1	5845.4	5985.2
50°	6589.0	6517.1	6771.4	6876.3	7165.5	7307.3	6658.8	6598.7	6526.8	6794.7
52.5°	6625.8	6722.9	7082.1	7291.7	7887.7	8149.8	7416.0	7390.7	7303.4	7612.1
55°	6889.9	6878.2	7239.3	7693.6	8402.2	8842.9	8402.2	8386.7	8196.4	8489.5
57.5°	6845.2	6963.6	7249.0	7883.8	8866.2	9586.4	9545.6	9438.9	9172.9	9411.7
60°	6693.8	6724.9	7072.4	7878.0	9136.0	10349.4	10780.3	10801.7	10258.1	10448.4
62.5°	5835.7	5907.5	6348.2	7258.7	8943.8	10875.5	11985.9	11910.2	11475.3	11257.9
65°	4641.8	4569.9	5028.1	6012.4	7747.9	10502.7	12514.0	12795.5	12112.1	11714.1
67.5°	2846.0	2828.6	3269.2	4137.0	5796.9	8938.0	12092.7	12312.1	11935.4	11617.1
70°	1465.7	1421.1	1696.7	2308.3	3643.9	6557.9	10524.1	10739.6	11098.7	10419.2
72.5°	683.4	673.6	821.2	1135.7	1855.9	3855.5	8149.8	8305.1	9062.2	8784.6
75°	401.9	407.7	491.2	594.1	904.7	1817.1	5408.6	5709.5	6530.7	6330.8
77.5°	300.9	300.9	349.4	413.5	528.0	702.8	2669.4	3067.3	3818.6	3434.3
80°	221.3	225.2	267.9	310.6	366.9	363.0	1060.0	1242.5	1751.1	1496.8
82.5°	172.8	178.6	207.7	231.0	258.2	219.4	434.9	467.9	720.2	572.7
85°	120.4	124.2	163.1	157.2	157.2	122.3	180.5	190.3	285.4	271.8
87.5°	29.1	33.0	79.6	87.4	66.0	36.9	56.3	64.1	102.9	118.4
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°
2226.7	0°	2226.7	2226.7	2226.7	2226.7	2226.7	2226.7	2226.7	2226.7	2226.7	2226.7
2265.6	2.5°	2236.4	2244.2	2277.2	2259.7	2269.4	2228.7	2261.7	2234.5	2257.8	2246.1
2283.0	5°	2298.6	2281.1	2300.5	2286.9	2286.9	2302.4	2325.7	2308.3	2343.2	2327.7
2296.6	7.5°	2323.8	2325.7	2337.4	2339.3	2329.6	2378.2	2380.1	2374.3	2407.3	2399.5
2389.8	10°	2385.9	2387.9	2409.2	2420.9	2411.2	2428.6	2409.2	2393.7	2391.7	2384.0
2463.6	12.5°	2484.9	2504.3	2500.5	2510.2	2512.1	2438.3	2393.7	2318.0	2308.3	2318.0
2572.3	15°	2576.2	2568.4	2572.3	2591.7	2510.2	2391.7	2312.2	2248.1	2252.0	2253.9
2714.0	17.5°	2684.9	2690.7	2696.5	2607.2	2457.8	2318.0	2248.1	2248.1	2228.7	2236.4
2813.0	20°	2809.1	2785.8	2735.4	2609.2	2366.5	2232.6	2211.2	2211.2	2187.9	2172.4
2919.8	22.5°	2906.2	2859.6	2783.9	2549.0	2285.0	2199.6	2147.1	2110.3	2083.1	2052.0
3038.2	25°	2968.3	2943.1	2795.6	2486.9	2224.8	2112.2	2034.5	1978.2	1943.3	1902.5
3131.4	27.5°	3063.5	3014.9	2828.6	2415.0	2158.8	2024.8	1904.5	1817.1	1751.1	1708.4
3273.1	30°	3191.6	3121.7	2805.3	2312.2	2057.8	1873.4	1731.7	1619.1	1543.4	1508.4
3407.1	32.5°	3296.4	3205.2	2785.8	2219.0	1945.2	1720.0	1531.7	1417.2	1374.5	1329.8
3632.3	35°	3496.4	3315.8	2772.3	2166.6	1844.3	1566.7	1368.7	1269.6	1215.3	1149.3
3766.2	37.5°	3649.7	3508.0	2739.3	2057.8	1714.2	1417.2	1244.4	1155.1	1073.6	1003.7
4076.8	40°	3890.5	3775.9	2741.2	1904.5	1560.8	1289.1	1147.3	1054.2	951.3	891.1
4536.9	42.5°	4342.8	4040.0	2752.8	1782.2	1388.1	1184.2	1060.0	949.3	846.4	796.0
5061.1	45°	4898.0	4403.0	2681.0	1671.5	1211.4	1085.2	955.1	844.5	778.5	741.6
5773.6	47.5°	5536.7	4758.3	2583.9	1463.8	1063.9	980.4	858.1	794.0	745.5	724.1
6691.8	50°	6251.2	5266.9	2556.8	1273.5	949.3	891.1	811.5	763.0	729.9	704.7
7726.6	52.5°	7171.4	5859.0	2502.4	1077.5	850.3	819.3	794.0	761.0	731.9	710.5
8691.4	55°	8050.8	6515.2	2444.2	916.3	780.4	784.3	797.9	768.8	743.5	710.5
9772.8	57.5°	9040.9	7185.0	2228.7	797.9	728.0	766.8	794.0	761.0	735.8	710.5
10879.4	60°	9652.4	7561.6	1807.4	695.0	681.4	733.8	770.7	735.8	708.6	718.3
11388.0	62.5°	9900.9	7363.6	1362.8	630.9	648.4	689.2	733.8	720.2	700.8	737.7
11382.2	65°	9477.7	6907.3	974.6	576.6	603.8	644.5	700.8	716.4	722.2	794.0
10454.2	67.5°	8433.2	6014.3	716.4	531.9	557.2	617.4	724.1	749.4	745.5	834.8
8773.0	70°	6748.1	4703.9	559.1	495.0	539.7	638.7	757.1	757.1	729.9	834.8
6691.8	72.5°	4909.7	3315.8	481.5	452.3	495.0	586.3	753.2	751.3	716.4	763.0
4261.3	75°	2972.2	1929.7	425.2	409.6	425.2	502.8	720.2	708.6	660.1	656.2
2050.1	77.5°	1481.3	970.7	347.5	363.0	370.8	421.3	632.9	650.4	584.3	568.8
809.5	80°	625.1	423.2	289.3	312.6	312.6	355.3	526.1	537.8	485.3	456.2
320.3	82.5°	285.4	242.7	246.6	271.8	254.3	275.7	417.4	431.0	394.1	345.6
135.9	85°	120.4	137.8	188.3	213.5	188.3	178.6	287.3	302.9	256.3	213.5
58.2	87.5°	54.4	75.7	118.4	155.3	95.1	83.5	153.4	159.2	128.1	95.1
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





<u>180°</u>
2226.7
2224.8
2306.3
2387.9
2384.0
2321.9
2281.1
2238.4
2149.1
2034.5
1910.3
1727.8
1527.8
1327.9
1143.5
1005.6
896.9
799.8
749.4
720.2
708.6
708.6
708.6
708.6
710.5
728.0
794.0
840.6
817.3
735.8
648.4
559.1
446.5
337.8
215.5
89.3
0.0

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