

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: P477414

Luminaire Tested: **IFLD-S-SA2E-750-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477414
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-750-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

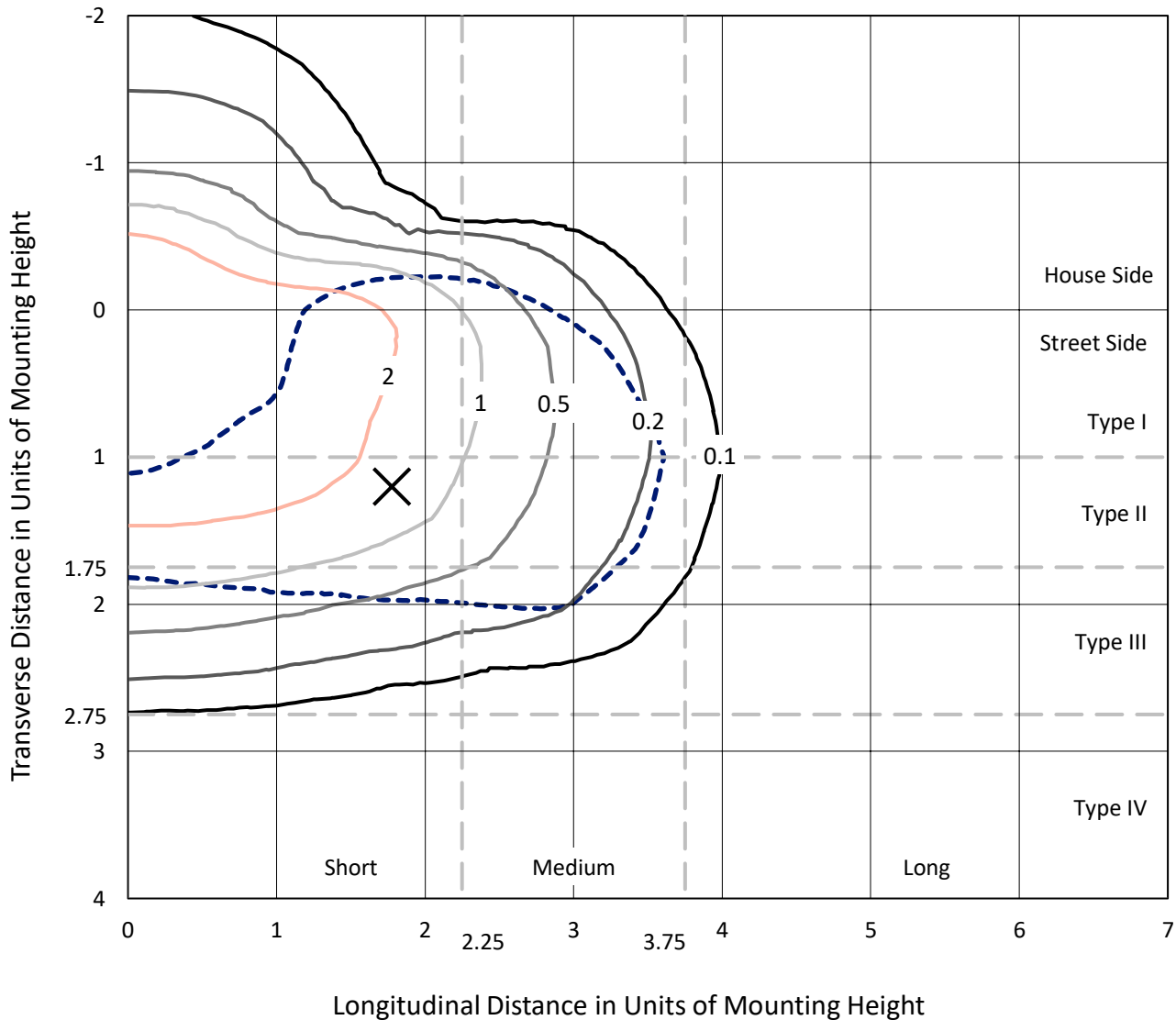
Lumens per Lamp: N/A
Luminaire Lumens: 18856.7 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 156.2
Input Voltage (V): 120
Input Current (Ain): 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

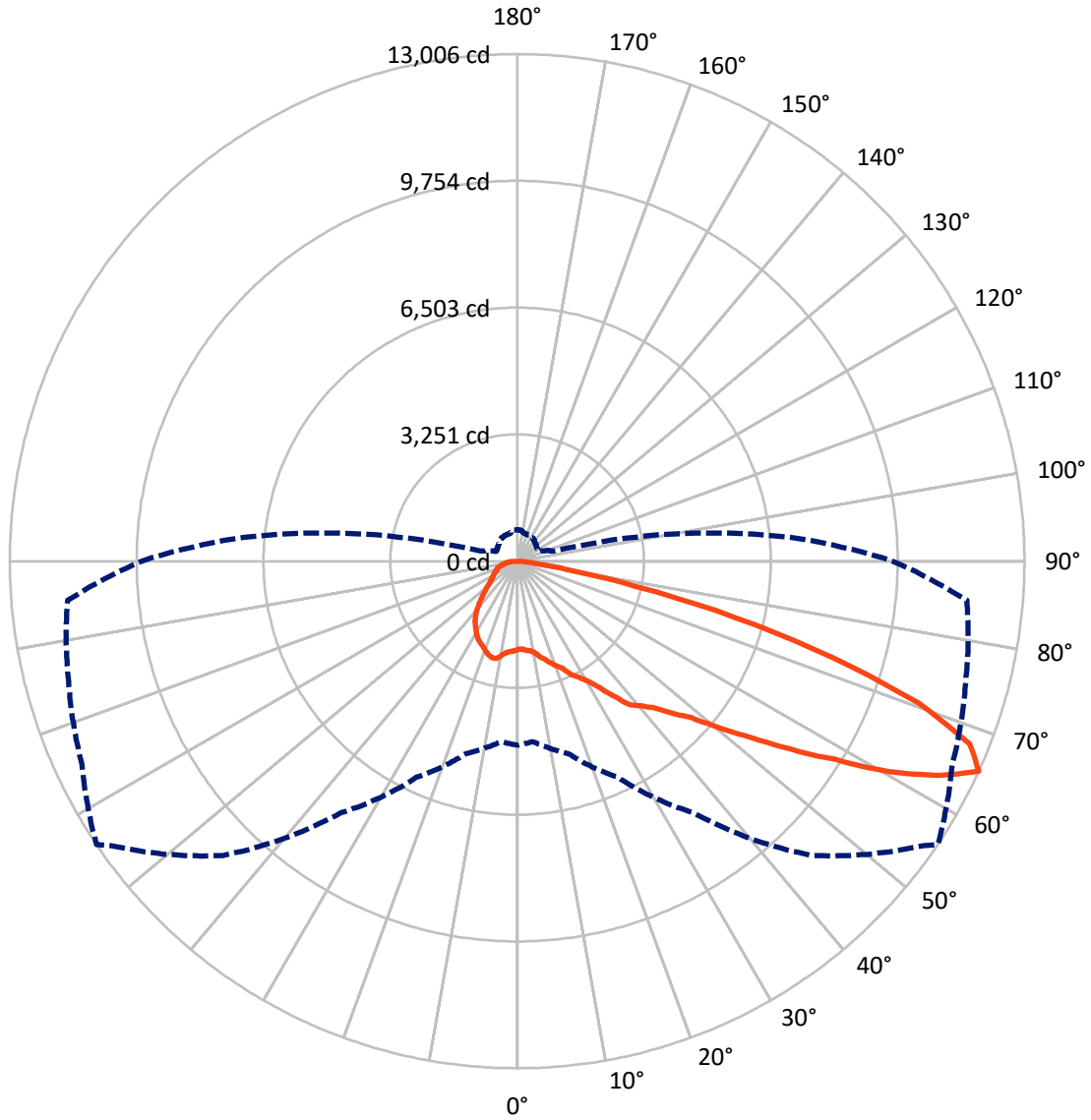
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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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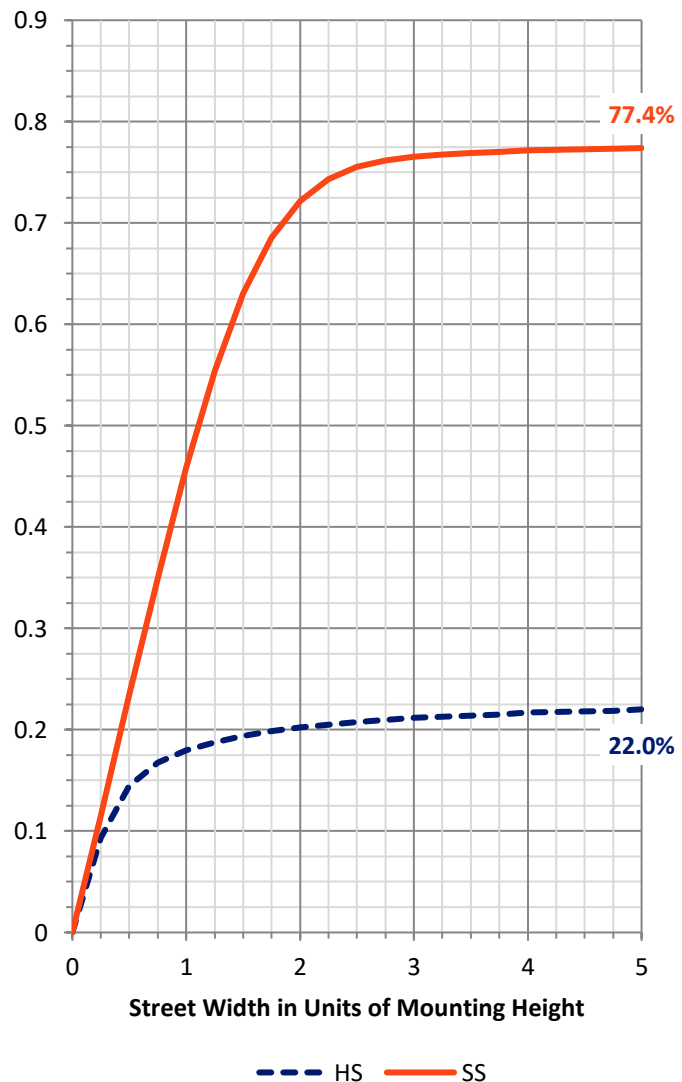
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4229.0	0.0	4229.0
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	14627.8	0.0	14627.8
	% Fixture	77.6	0.0	77.6
Total	Lumens	18856.7	0.0	18856.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.3	1.2
10°-20°	728.3	3.9
20°-30°	1296.8	6.9
30°-40°	1941.9	10.3
40°-50°	2877.2	15.3
50°-60°	4433.3	23.5
60°-70°	5019.0	26.6
70°-80°	2082.9	11.0
80°-90°	253.1	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°	18856.7	100.0
0°-180°	18856.7	100.0

Coefficient of Utilization



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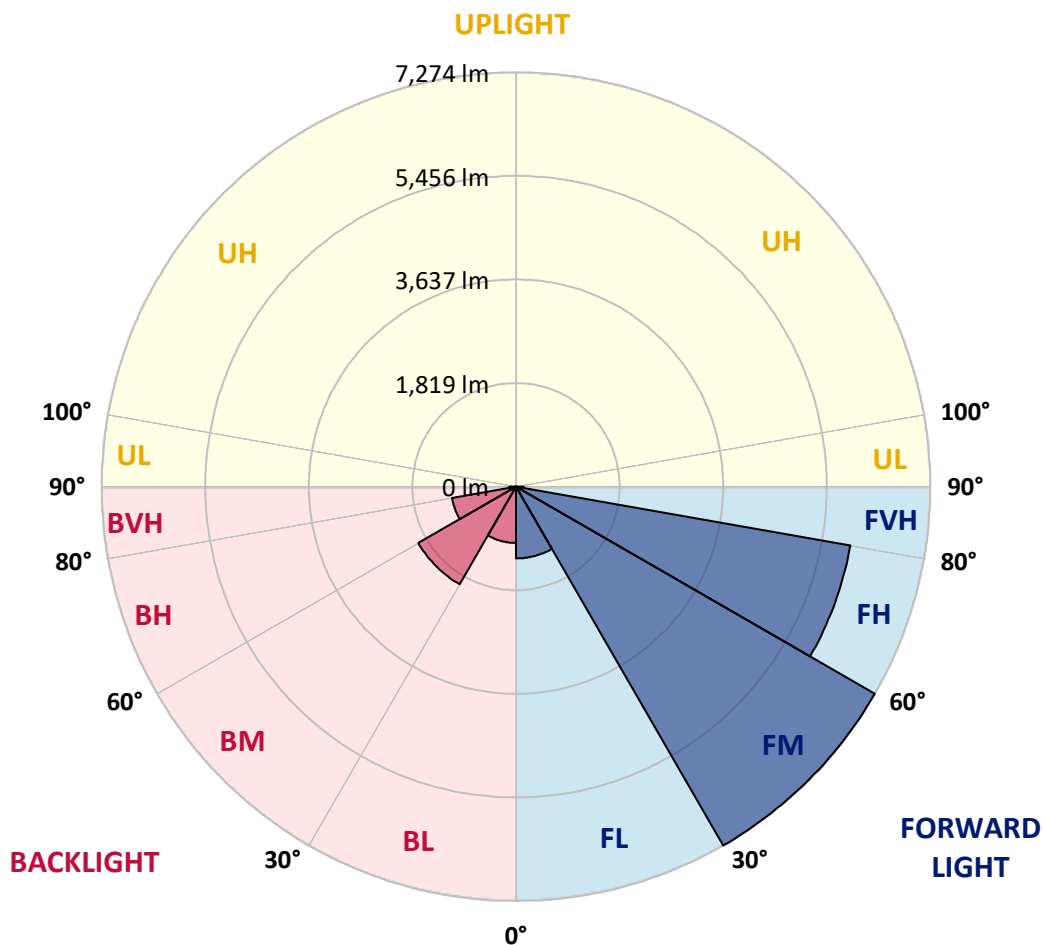
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1260.2	6.7			
FM (30°-60°)	7274.1	38.6			
FH (60°-80°)	5960.0	31.6			G3/7500
FVH (80°-90°)	133.5	0.7			G2/225
BL (0°-30°)	989.2	5.2	B2/1000		
BM (30°-60°)	1978.2	10.5	B2/2500		
BH (60°-80°)	1142.0	6.1	B3/2500		G3/2500
BVH (80°-90°)	119.6	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°	2263.3	2263.3	2263.3	2263.3	2263.3	2263.3	2263.3	2263.3	2263.3	2263.3
2.5°	2204.1	2216.0	2208.1	2231.8	2251.5	2251.5	2267.3	2255.5	2271.2	2292.9
5°	2277.2	2229.8	2255.5	2267.3	2261.4	2271.2	2255.5	2294.9	2269.3	2310.7
7.5°	2294.9	2312.7	2334.4	2314.7	2332.4	2322.5	2324.5	2318.6	2304.8	2338.3
10°	2425.2	2399.5	2448.8	2419.2	2415.3	2411.3	2403.4	2373.8	2407.4	2409.4
12.5°	2575.1	2551.4	2549.5	2525.8	2557.4	2500.1	2512.0	2496.2	2502.1	2510.0
15°	2683.7	2673.8	2719.2	2691.5	2650.1	2624.5	2652.1	2608.7	2630.4	2626.4
17.5°	2898.7	2896.8	2863.2	2817.8	2794.2	2756.7	2750.7	2733.0	2748.8	2740.9
20°	3048.7	3070.4	3076.3	3023.1	2932.3	2890.8	2881.0	2867.2	2884.9	2879.0
22.5°	3277.6	3244.1	3269.7	3177.0	3143.4	3044.8	3009.2	2989.5	3074.4	3052.7
25°	3423.6	3459.1	3433.5	3401.9	3326.9	3204.6	3178.9	3222.4	3255.9	3232.2
27.5°	3753.2	3717.6	3694.0	3599.3	3549.9	3421.7	3392.1	3376.3	3384.2	3398.0
30°	4003.8	4023.5	3970.2	3903.1	3778.8	3648.6	3579.5	3565.7	3538.1	3514.4
32.5°	4360.9	4331.3	4299.8	4256.4	4149.8	3978.1	3911.0	3859.7	3776.8	3666.3
35°	4532.6	4617.5	4593.8	4477.4	4396.5	4331.3	4311.6	4232.7	4163.6	3990.0
37.5°	4818.7	4854.3	4820.7	4783.2	4745.7	4676.7	4653.0	4674.7	4538.5	4252.4
40°	5004.2	5079.2	5148.3	5043.7	5035.8	5049.6	4903.6	4877.9	4597.7	4447.8
42.5°	5383.1	5414.7	5428.5	5424.5	5469.9	5469.9	5191.7	5136.4	4937.1	4814.8
45°	5884.3	5910.0	5959.3	5994.8	5943.5	5969.2	5572.5	5550.8	5373.2	5349.5
47.5°	6318.4	6379.6	6490.1	6594.7	6661.8	6574.9	6140.8	5986.9	5941.5	6083.6
50°	6697.3	6624.3	6882.8	6989.3	7283.4	7427.4	6768.3	6707.2	6634.1	6906.5
52.5°	6734.8	6833.4	7198.5	7411.6	8017.4	8283.8	7537.9	7512.3	7423.5	7737.2
55°	7003.1	6991.3	7358.3	7820.1	8540.3	8988.3	8540.3	8524.5	8331.2	8629.1
57.5°	6957.8	7078.1	7368.2	8013.5	9011.9	9744.0	9702.6	9594.1	9323.7	9566.4
60°	6803.8	6835.4	7188.6	8007.5	9286.2	10519.5	10957.6	10979.3	10426.8	10620.2
62.5°	5931.7	6004.7	6452.6	7378.1	9090.9	11054.3	12183.0	12106.0	11664.0	11443.0
65°	4718.1	4645.1	5110.8	6111.2	7875.3	10675.4	12719.7	13005.8	12311.3	11906.7
67.5°	2892.8	2875.1	3323.0	4205.0	5892.2	9085.0	12291.5	12514.5	12131.7	11808.1
70°	1489.8	1444.4	1724.6	2346.2	3703.8	6665.7	10697.1	10916.2	11281.2	10590.6
72.5°	694.6	684.7	834.7	1154.4	1886.4	3918.9	8283.8	8441.7	9211.2	8929.1
75°	408.5	414.4	499.2	603.8	919.5	1847.0	5497.5	5803.4	6638.1	6434.8
77.5°	305.9	305.9	355.2	420.3	536.7	714.3	2713.3	3117.8	3881.4	3490.7
80°	225.0	228.9	272.3	315.7	372.9	369.0	1077.4	1262.9	1779.9	1521.4
82.5°	175.6	181.5	211.1	234.8	262.4	223.0	442.0	475.6	732.1	582.1
85°	122.3	126.3	165.8	159.8	159.8	124.3	183.5	193.4	290.1	276.3
87.5°	29.6	33.5	80.9	88.8	67.1	37.5	57.2	65.1	104.6	120.4
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°
2263.3	0°	2263.3	2263.3	2263.3	2263.3	2263.3	2263.3	2263.3	2263.3	2263.3	2263.3
2302.8	2.5°	2273.2	2281.1	2314.7	2296.9	2306.8	2265.3	2298.9	2271.2	2294.9	2283.1
2320.6	5°	2336.4	2318.6	2338.3	2324.5	2324.5	2340.3	2364.0	2346.2	2381.7	2366.0
2334.4	7.5°	2362.0	2364.0	2375.8	2377.8	2367.9	2417.3	2419.2	2413.3	2446.9	2439.0
2429.1	10°	2425.2	2427.1	2448.8	2460.7	2450.8	2468.6	2448.8	2433.0	2431.1	2423.2
2504.1	12.5°	2525.8	2545.5	2541.6	2551.4	2553.4	2478.4	2433.0	2356.1	2346.2	2356.1
2614.6	15°	2618.5	2610.6	2614.6	2634.3	2551.4	2431.1	2350.2	2285.1	2289.0	2291.0
2758.6	17.5°	2729.0	2735.0	2740.9	2650.1	2498.2	2356.1	2285.1	2285.1	2265.3	2273.2
2859.3	20°	2855.3	2831.6	2780.3	2652.1	2405.4	2269.3	2247.6	2247.6	2223.9	2208.1
2967.8	22.5°	2954.0	2906.6	2829.7	2590.9	2322.5	2235.7	2182.4	2144.9	2117.3	2085.8
3088.2	25°	3017.1	2991.5	2841.5	2527.8	2261.4	2146.9	2068.0	2010.8	1975.2	1933.8
3182.9	27.5°	3113.8	3064.5	2875.1	2454.8	2194.3	2058.1	1935.8	1847.0	1779.9	1736.5
3326.9	30°	3244.1	3173.0	2851.4	2350.2	2091.7	1904.2	1760.2	1645.7	1568.8	1533.2
3463.1	32.5°	3350.6	3257.9	2831.6	2255.5	1977.2	1748.3	1556.9	1440.5	1397.1	1351.7
3692.0	35°	3553.9	3370.4	2817.8	2202.2	1874.6	1592.4	1391.2	1290.5	1235.3	1168.2
3828.2	37.5°	3709.8	3565.7	2784.3	2091.7	1742.4	1440.5	1264.9	1174.1	1091.2	1020.2
4143.9	40°	3954.4	3838.0	2786.3	1935.8	1586.5	1310.3	1166.2	1071.5	966.9	905.7
4611.5	42.5°	4414.2	4106.4	2798.1	1811.5	1410.9	1203.7	1077.4	964.9	860.3	809.0
5144.3	45°	4978.6	4475.4	2725.1	1699.0	1231.3	1103.1	970.9	858.4	791.3	753.8
5868.5	47.5°	5627.8	4836.5	2626.4	1487.8	1081.4	996.5	872.2	807.1	757.7	736.0
6801.9	50°	6353.9	5353.5	2598.8	1294.5	964.9	905.7	824.8	775.5	742.0	716.3
7853.6	52.5°	7289.3	5955.3	2543.6	1095.2	864.3	832.7	807.1	773.5	743.9	722.2
8834.3	55°	8183.2	6622.3	2484.4	931.4	793.3	797.2	811.0	781.4	755.8	722.2
9933.5	57.5°	9189.5	7303.1	2265.3	811.0	740.0	779.4	807.1	773.5	747.9	722.2
11058.2	60°	9811.1	7685.9	1837.1	706.4	692.6	745.9	783.4	747.9	720.2	730.1
11575.2	62.5°	10063.7	7484.6	1385.2	641.3	659.1	700.5	745.9	732.1	712.4	749.8
11569.3	65°	9633.5	7020.9	990.6	586.1	613.7	655.1	712.4	728.1	734.1	807.1
10626.1	67.5°	8571.9	6113.2	728.1	540.7	566.3	627.5	736.0	761.7	757.7	848.5
8917.2	70°	6859.1	4781.2	568.3	503.2	548.6	649.2	769.6	769.6	742.0	848.5
6801.9	72.5°	4990.4	3370.4	489.4	459.8	503.2	595.9	765.6	763.7	728.1	775.5
4331.3	75°	3021.1	1961.4	432.1	416.4	432.1	511.1	732.1	720.2	670.9	667.0
2083.8	77.5°	1505.6	986.6	353.2	369.0	376.9	428.2	643.3	661.0	594.0	578.2
822.9	80°	635.4	430.2	294.0	317.7	317.7	361.1	534.8	546.6	493.3	463.7
325.6	82.5°	290.1	246.7	250.6	276.3	258.5	280.2	424.3	438.1	400.6	351.2
138.1	85°	122.3	140.1	191.4	217.1	191.4	181.5	292.0	307.8	260.5	217.1
59.2	87.5°	55.3	77.0	120.4	157.9	96.7	84.9	155.9	161.8	130.2	96.7
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>
2263.3
2261.4
2344.2
2427.1
2423.2
2360.0
2318.6
2275.2
2184.4
2068.0
1941.7
1756.2
1553.0
1349.7
1162.3
1022.2
911.7
813.0
761.7
732.1
720.2
720.2
720.2
720.2
722.2
740.0
807.1
854.4
830.7
747.9
659.1
568.3
453.9
343.3
219.0
90.8
0.0

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