

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: P477509

Luminaire Tested: **IFLD-S-SA6B-827-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477509
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-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

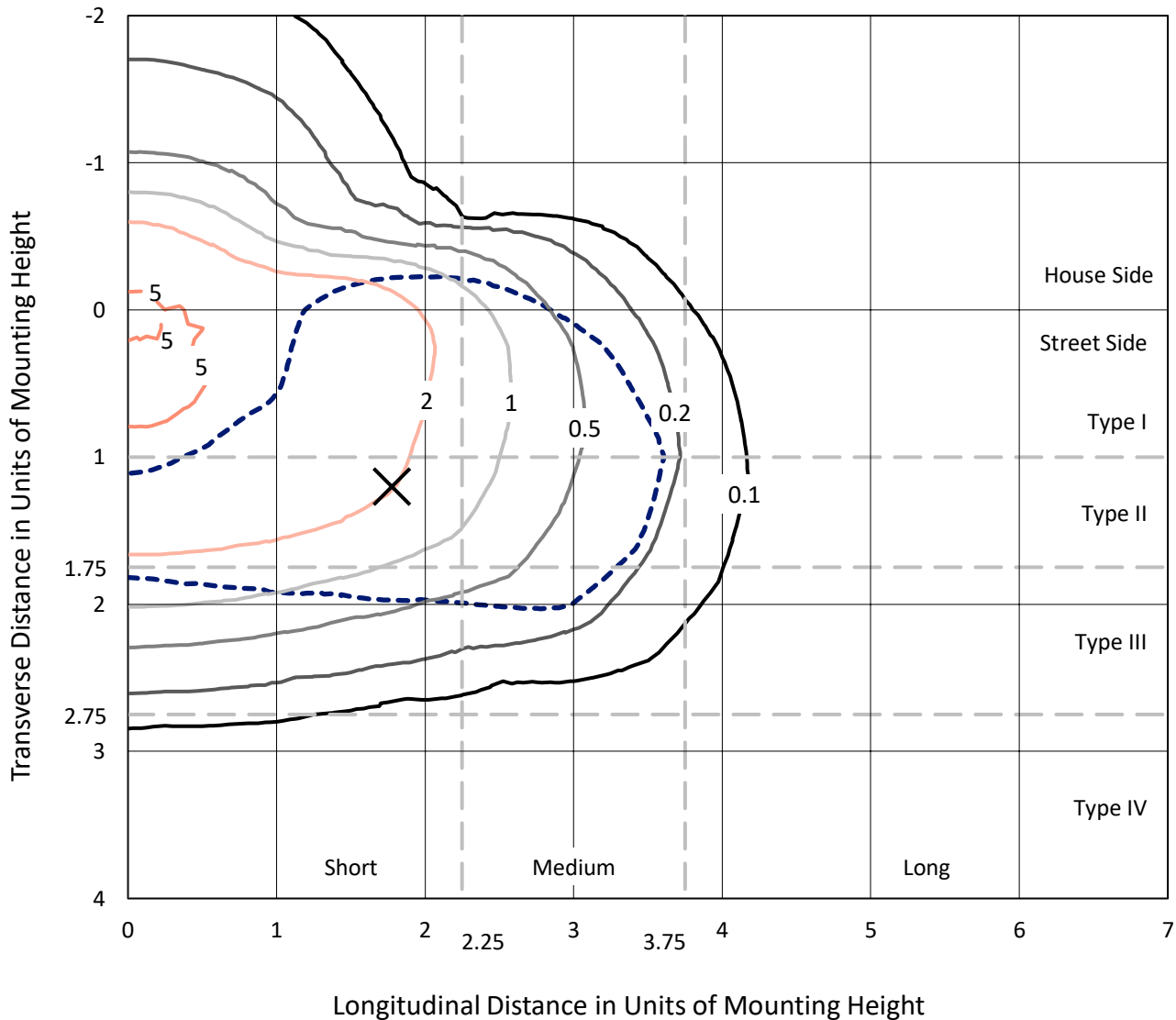
Lumens per Lamp: N/A
Luminaire Lumens: 24991.8 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 244.9
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

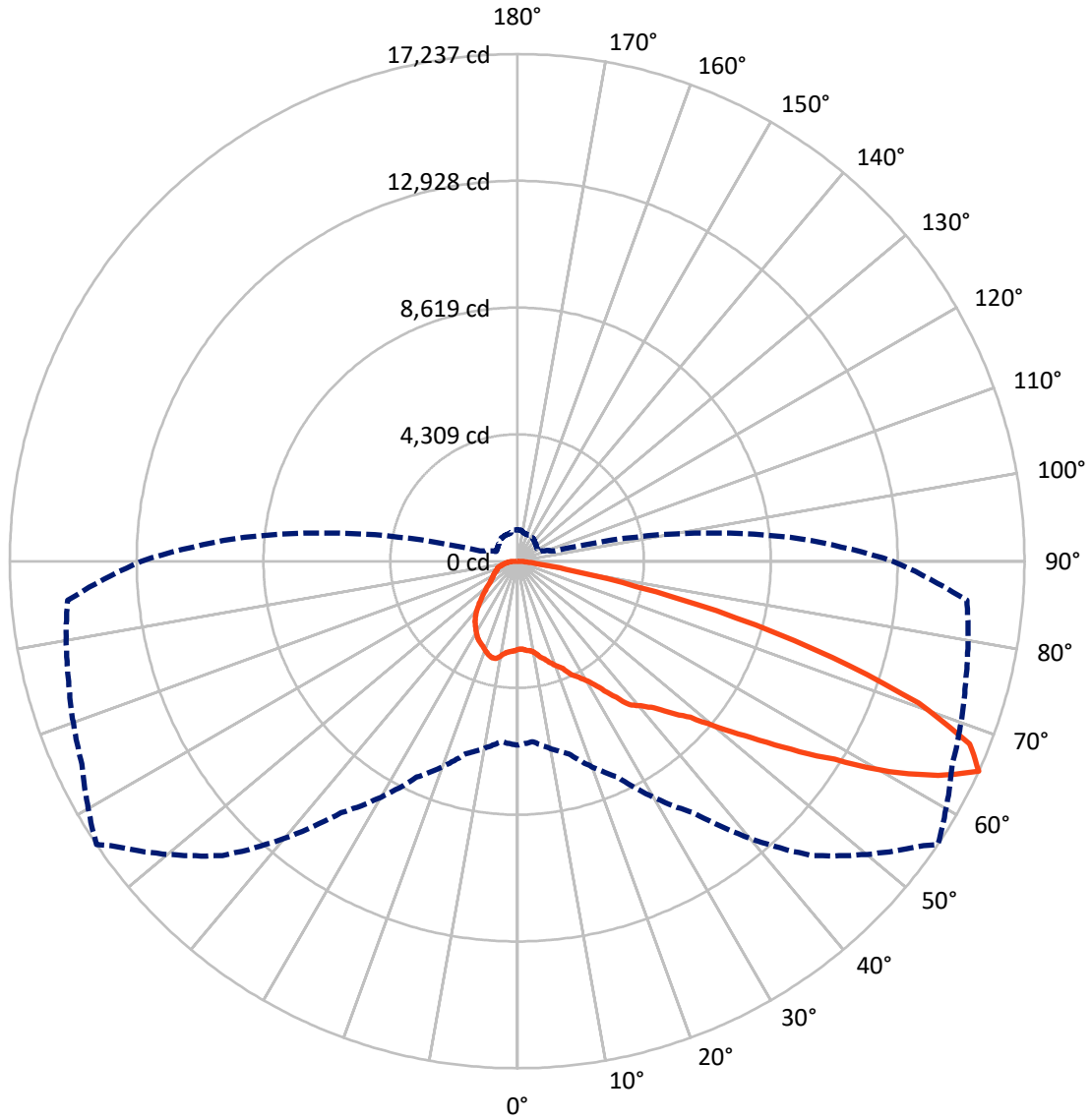
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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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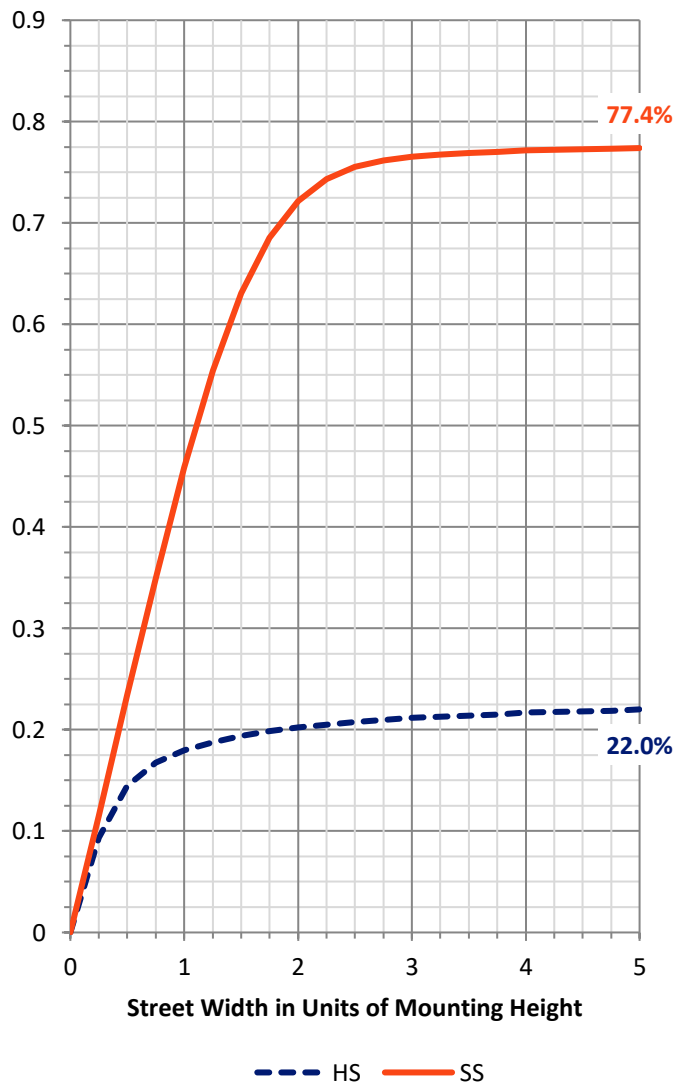
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5604.9	0.0	5604.9
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	19387.0	0.0	19387.0
	% Fixture	77.6	0.0	77.6
Total	Lumens	24991.8	0.0	24991.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.3	1.2
10°-20°	965.3	3.9
20°-30°	1718.7	6.9
30°-40°	2573.7	10.3
40°-50°	3813.2	15.3
50°-60°	5875.7	23.5
60°-70°	6652.0	26.6
70°-80°	2760.6	11.0
80°-90°	335.4	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°	24991.8	100.0
0°-180°	24991.8	100.0

Coefficient of Utilization

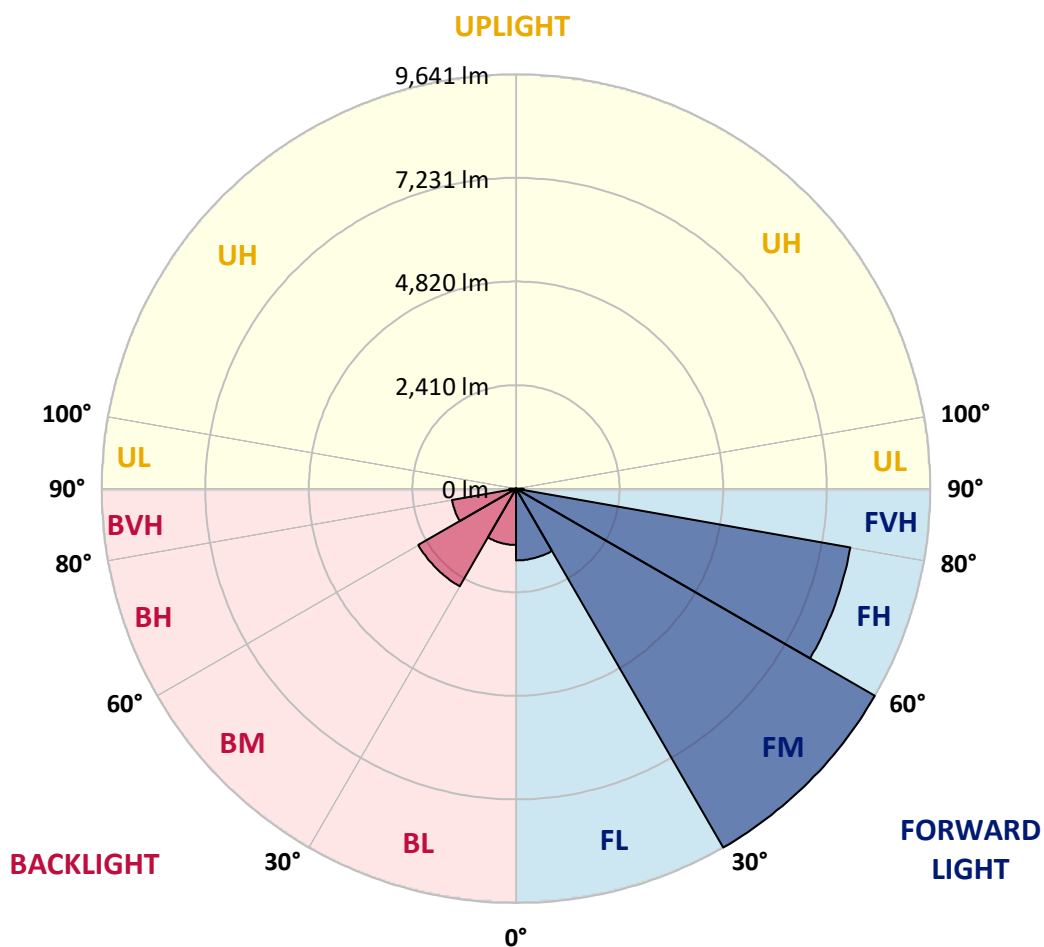


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1670.2	6.7			
FM (30°-60°)	9640.8	38.6			
FH (60°-80°)	7899.1	31.6			G4/12000
FVH (80°-90°)	176.9	0.7			G2/225
BL (0°-30°)	1311.0	5.2	B3/2500		
BM (30°-60°)	2621.9	10.5	B3/5000		
BH (60°-80°)	1513.5	6.1	B3/2500		G3/2500
BVH (80°-90°)	158.5	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-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	2999.7	2999.7	2999.7	2999.7	2999.7	2999.7	2999.7	2999.7	2999.7	2999.7
2.5°	2921.3	2937.0	2926.5	2957.9	2984.0	2984.0	3005.0	2989.3	3010.2	3039.0
5°	3018.0	2955.3	2989.3	3005.0	2997.1	3010.2	2989.3	3041.6	3007.6	3062.5
7.5°	3041.6	3065.1	3093.9	3067.7	3091.3	3078.2	3080.8	3073.0	3054.7	3099.1
10°	3214.2	3180.2	3245.6	3206.3	3201.1	3195.9	3185.4	3146.2	3190.7	3193.3
12.5°	3412.9	3381.6	3379.0	3347.6	3389.4	3313.6	3329.3	3308.3	3316.2	3326.6
15°	3556.8	3543.7	3603.9	3567.3	3512.3	3478.3	3514.9	3457.4	3486.2	3480.9
17.5°	3841.9	3839.2	3794.8	3734.6	3703.2	3653.6	3645.7	3622.2	3643.1	3632.6
20°	4040.6	4069.4	4077.2	4006.6	3886.3	3831.4	3818.3	3800.0	3823.5	3815.7
22.5°	4344.0	4299.5	4333.5	4210.6	4166.2	4035.4	3988.3	3962.2	4074.6	4045.8
25°	4537.5	4584.6	4550.6	4508.8	4409.4	4247.2	4213.2	4270.8	4315.2	4283.8
27.5°	4974.3	4927.2	4895.8	4770.3	4704.9	4534.9	4495.7	4474.8	4485.2	4503.5
30°	5306.4	5332.6	5262.0	5173.0	5008.3	4835.7	4744.1	4725.8	4689.2	4657.8
32.5°	5779.8	5740.6	5698.7	5641.2	5499.9	5272.4	5183.5	5115.5	5005.7	4859.2
35°	6007.3	6119.8	6088.4	5934.1	5826.9	5740.6	5714.4	5609.8	5518.3	5288.1
37.5°	6386.5	6433.6	6389.1	6339.5	6289.8	6198.2	6166.8	6195.6	6015.2	5635.9
40°	6632.4	6731.7	6823.3	6684.7	6674.2	6692.5	6499.0	6465.0	6093.6	5894.9
42.5°	7134.5	7176.3	7194.7	7189.4	7249.6	7249.6	6880.8	6807.6	6543.4	6381.3
45°	7798.8	7832.8	7898.2	7945.2	7877.2	7911.2	7385.6	7356.8	7121.4	7090.0
47.5°	8374.1	8455.2	8601.7	8740.3	8829.2	8714.1	8138.8	7934.8	7874.6	8062.9
50°	8876.3	8779.5	9122.1	9263.3	9653.0	9843.9	8970.4	8889.4	8792.6	9153.5
52.5°	8926.0	9056.7	9540.6	9823.0	10625.9	10979.0	9990.4	9956.4	9838.7	10254.5
55°	9281.7	9266.0	9752.4	10364.4	11319.0	11912.6	11319.0	11298.0	11041.7	11436.6
57.5°	9221.5	9381.0	9765.5	10620.7	11944.0	12914.3	12859.4	12715.5	12357.2	12678.9
60°	9017.5	9059.4	9527.5	10612.8	12307.5	13942.1	14522.7	14551.5	13819.2	14075.5
62.5°	7861.6	7958.3	8552.0	9778.6	12048.6	14650.8	16146.8	16044.8	15459.0	15166.0
65°	6253.2	6156.4	6773.6	8099.5	10437.6	14148.7	16858.1	17237.4	16316.8	15780.6
67.5°	3834.0	3810.5	4404.1	5573.2	7809.2	12040.8	16290.6	16586.1	16078.8	15649.9
70°	1974.5	1914.4	2285.8	3109.6	4908.9	8834.4	14177.5	14467.8	14951.6	14036.2
72.5°	920.6	907.5	1106.3	1529.9	2500.2	5194.0	10979.0	11188.2	12208.2	11834.2
75°	541.4	549.2	661.7	800.3	1218.7	2447.9	7286.2	7691.6	8797.8	8528.5
77.5°	405.4	405.4	470.8	557.1	711.4	946.7	3596.0	4132.2	5144.3	4626.4
80°	298.1	303.4	360.9	418.4	494.3	489.1	1427.9	1673.8	2359.0	2016.4
82.5°	232.8	240.6	279.8	311.2	347.8	295.5	585.8	630.3	970.3	771.5
85°	162.1	167.4	219.7	211.8	211.8	164.8	243.2	256.3	384.4	366.1
87.5°	39.2	44.5	107.2	117.7	88.9	49.7	75.8	86.3	138.6	159.5
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°
2999.7	0°	2999.7	2999.7	2999.7	2999.7	2999.7	2999.7	2999.7	2999.7	2999.7	2999.7
3052.0	2.5°	3012.8	3023.3	3067.7	3044.2	3057.3	3002.3	3046.8	3010.2	3041.6	3025.9
3075.6	5°	3096.5	3073.0	3099.1	3080.8	3080.8	3101.7	3133.1	3109.6	3156.7	3135.7
3093.9	7.5°	3130.5	3133.1	3148.8	3151.4	3138.3	3203.7	3206.3	3198.5	3243.0	3232.5
3219.4	10°	3214.2	3216.8	3245.6	3261.3	3248.2	3271.7	3245.6	3224.6	3222.0	3211.6
3318.8	12.5°	3347.6	3373.7	3368.5	3381.6	3384.2	3284.8	3224.6	3122.7	3109.6	3122.7
3465.3	15°	3470.5	3460.0	3465.3	3491.4	3381.6	3222.0	3114.8	3028.5	3033.7	3036.3
3656.2	17.5°	3616.9	3624.8	3632.6	3512.3	3311.0	3122.7	3028.5	3028.5	3002.3	3012.8
3789.6	20°	3784.3	3752.9	3684.9	3514.9	3188.0	3007.6	2978.8	2978.8	2947.4	2926.5
3933.4	22.5°	3915.1	3852.3	3750.3	3433.9	3078.2	2963.1	2892.5	2842.8	2806.2	2764.4
4092.9	25°	3998.8	3964.8	3766.0	3350.2	2997.1	2845.4	2740.8	2665.0	2617.9	2563.0
4218.5	27.5°	4126.9	4061.5	3810.5	3253.4	2908.2	2727.7	2565.6	2447.9	2359.0	2301.5
4409.4	30°	4299.5	4205.4	3779.1	3114.8	2772.2	2523.8	2332.8	2181.1	2079.2	2032.1
4589.8	32.5°	4440.8	4317.8	3752.9	2989.3	2620.5	2317.1	2063.5	1909.2	1851.6	1791.5
4893.2	35°	4710.1	4466.9	3734.6	2918.7	2484.5	2110.5	1843.8	1710.4	1637.2	1548.2
5073.7	37.5°	4916.7	4725.8	3690.2	2772.2	2309.3	1909.2	1676.4	1556.1	1446.3	1352.1
5492.1	40°	5241.0	5086.7	3692.8	2565.6	2102.7	1736.6	1545.6	1420.1	1281.5	1200.4
6111.9	42.5°	5850.4	5442.4	3708.5	2400.8	1869.9	1595.3	1427.9	1278.9	1140.3	1072.3
6818.1	45°	6598.4	5931.5	3611.7	2251.8	1631.9	1461.9	1286.7	1137.6	1048.7	999.0
7777.9	47.5°	7458.8	6410.1	3480.9	1971.9	1433.2	1320.7	1156.0	1069.7	1004.3	975.5
9014.9	50°	8421.2	7095.3	3444.3	1715.6	1278.9	1200.4	1093.2	1027.8	983.3	949.3
10408.8	52.5°	9660.9	7892.9	3371.1	1451.5	1145.5	1103.7	1069.7	1025.2	986.0	957.2
11708.6	55°	10845.6	8776.9	3292.6	1234.4	1051.3	1056.6	1074.9	1035.7	1001.7	957.2
13165.4	57.5°	12179.4	9679.2	3002.3	1074.9	980.7	1033.0	1069.7	1025.2	991.2	957.2
14656.1	60°	13003.2	10186.5	2434.8	936.3	918.0	988.6	1038.3	991.2	954.6	967.7
15341.3	62.5°	13338.0	9919.8	1835.9	850.0	873.5	928.4	988.6	970.3	944.1	993.8
15333.4	65°	12767.8	9305.2	1312.9	776.7	813.4	868.3	944.1	965.0	972.9	1069.7
14083.3	67.5°	11360.8	8102.2	965.0	716.6	750.6	831.7	975.5	1009.5	1004.3	1124.6
11818.5	70°	9090.7	6336.8	753.2	666.9	727.0	860.4	1020.0	1020.0	983.3	1124.6
9014.9	72.5°	6614.1	4466.9	648.6	609.4	666.9	789.8	1014.7	1012.1	965.0	1027.8
5740.6	75°	4004.0	2599.6	572.7	551.8	572.7	677.4	970.3	954.6	889.2	884.0
2761.7	77.5°	1995.5	1307.6	468.1	489.1	499.5	567.5	852.6	876.1	787.2	766.3
1090.6	80°	842.1	570.1	389.7	421.1	421.1	478.6	708.7	724.4	653.8	614.6
431.5	82.5°	384.4	326.9	332.1	366.1	342.6	371.4	562.3	580.6	530.9	465.5
183.1	85°	162.1	185.7	253.7	287.7	253.7	240.6	387.1	408.0	345.2	287.7
78.5	87.5°	73.2	102.0	159.5	209.2	128.1	112.5	206.6	214.5	172.6	128.1
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



180°
2999.7
2997.1
3107.0
3216.8
3211.6
3127.9
3073.0
3015.4
2895.1
2740.8
2573.4
2327.6
2058.2
1788.9
1540.4
1354.7
1208.3
1077.5
1009.5
970.3
954.6
954.6
954.6
954.6
957.2
980.7
1069.7
1132.4
1101.0
991.2
873.5
753.2
601.5
455.1
290.3
120.3
0.0

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