

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: P477514

Luminaire Tested: **IFLD-M-SA4B-827-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477514
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-827-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (64) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

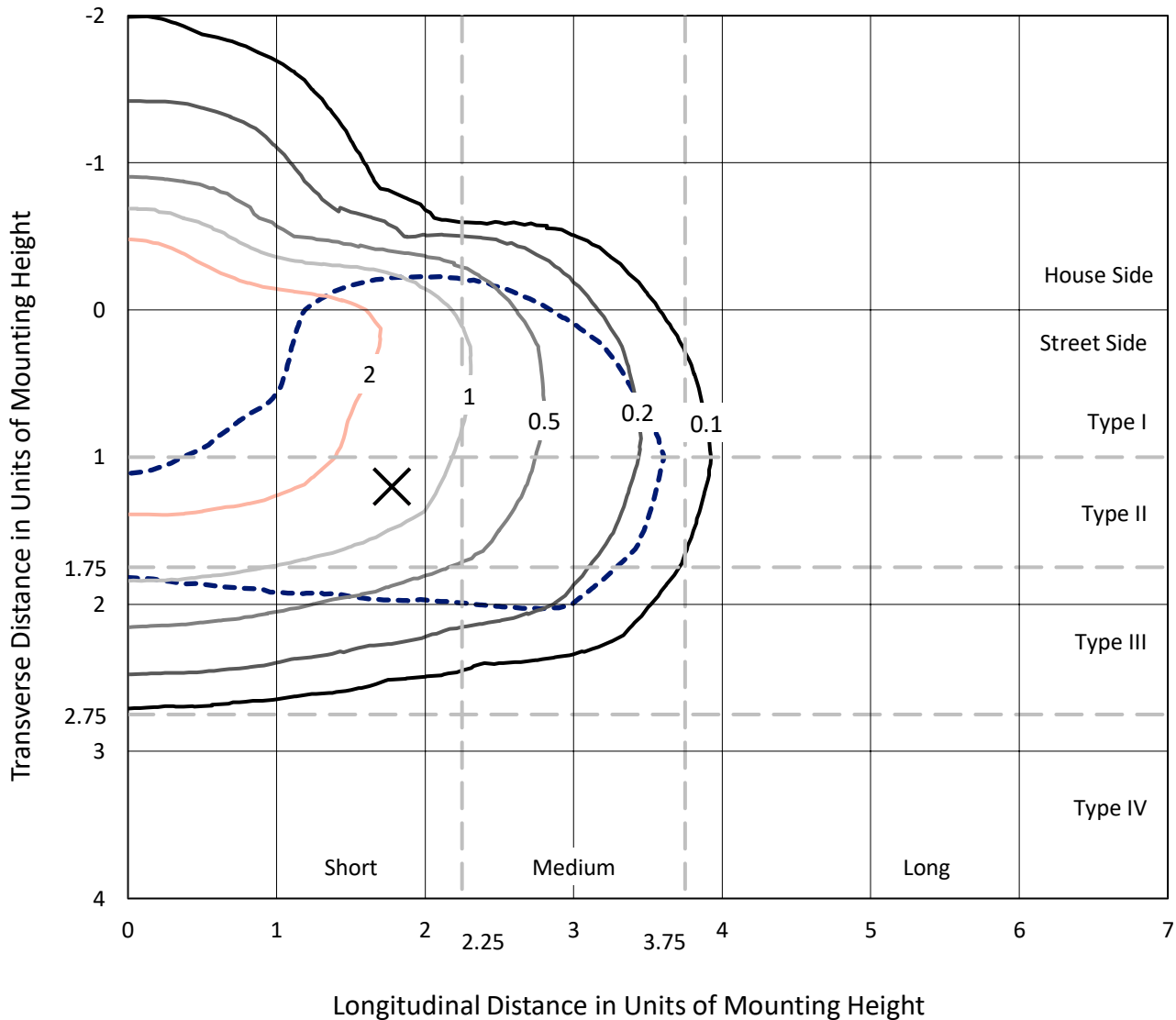
Lumens per Lamp: N/A
Luminaire Lumens: 17100.2 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

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

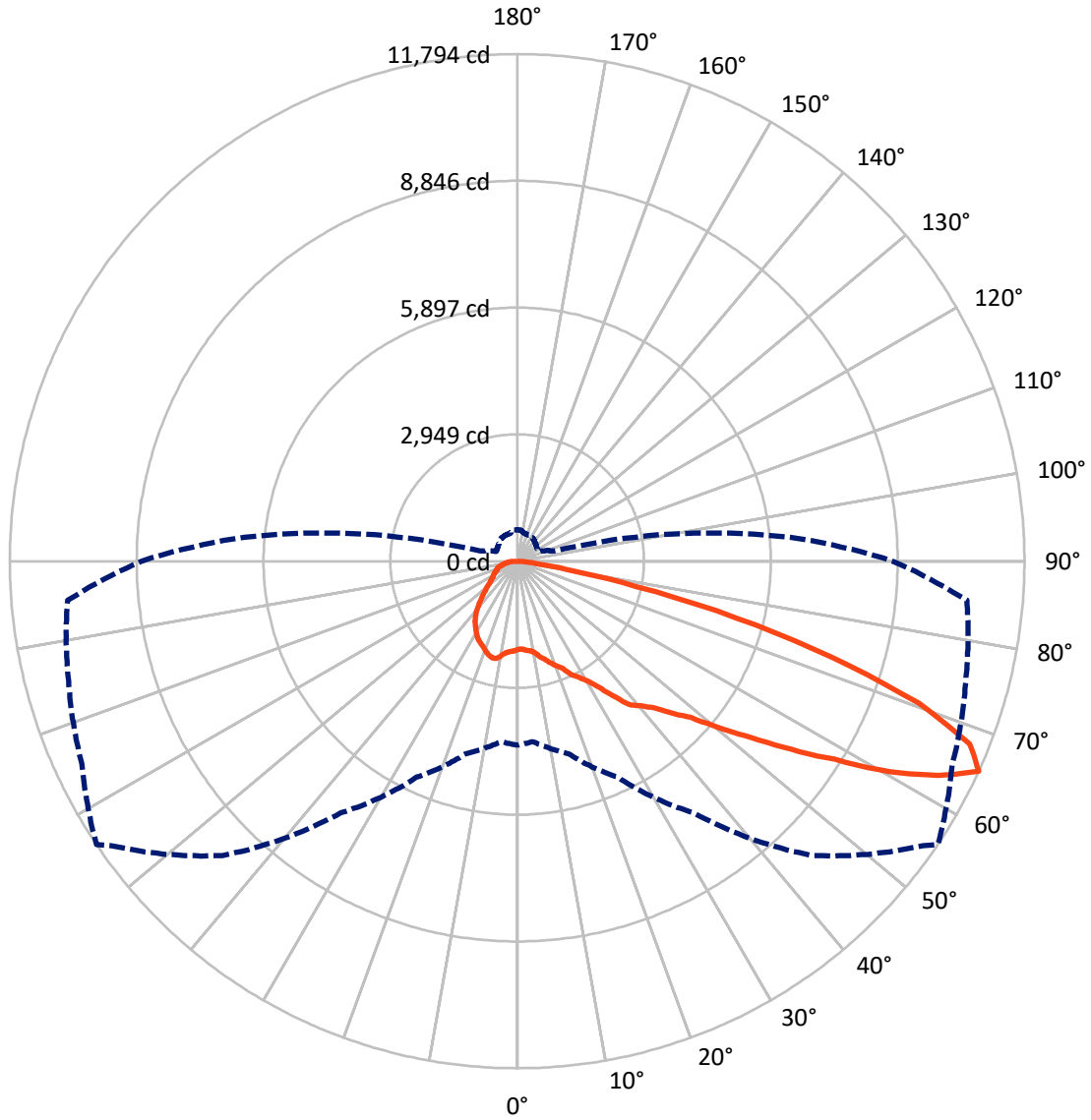
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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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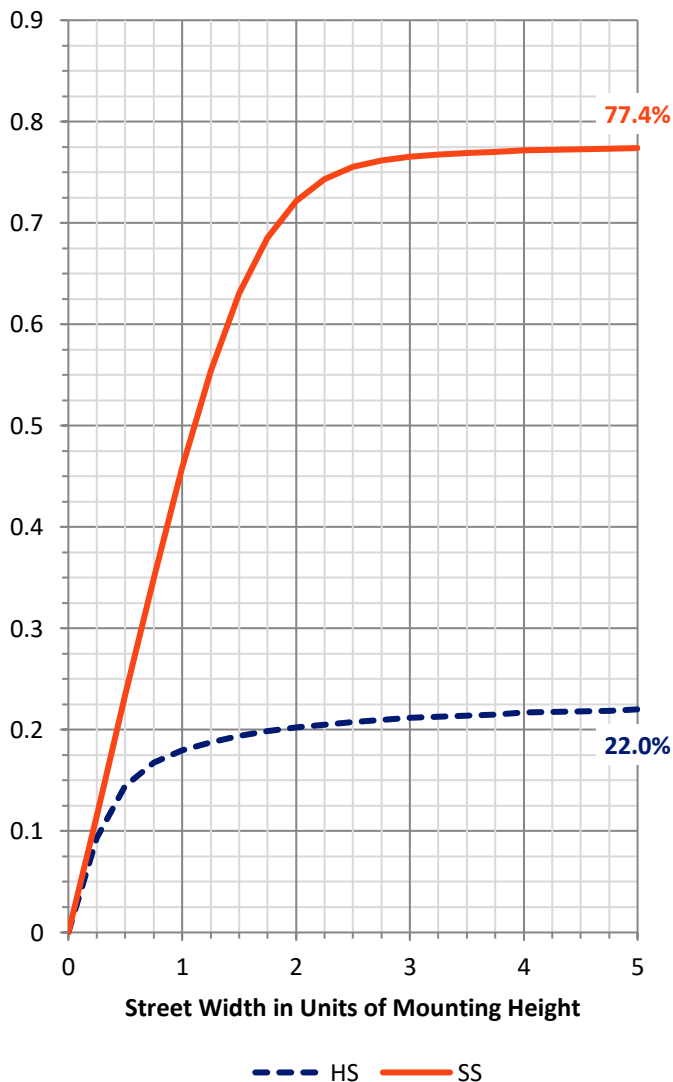
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3835.0	0.0	3835.0
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	13265.2	0.0	13265.2
	% Fixture	77.6	0.0	77.6
Total	Lumens	17100.2	0.0	17100.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.4	1.2
10°-20°	660.5	3.9
20°-30°	1176.0	6.9
30°-40°	1761.0	10.3
40°-50°	2609.1	15.3
50°-60°	4020.3	23.5
60°-70°	4551.5	26.6
70°-80°	1888.9	11.0
80°-90°	229.5	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°	17100.2	100.0
0°-180°	17100.2	100.0

Coefficient of Utilization

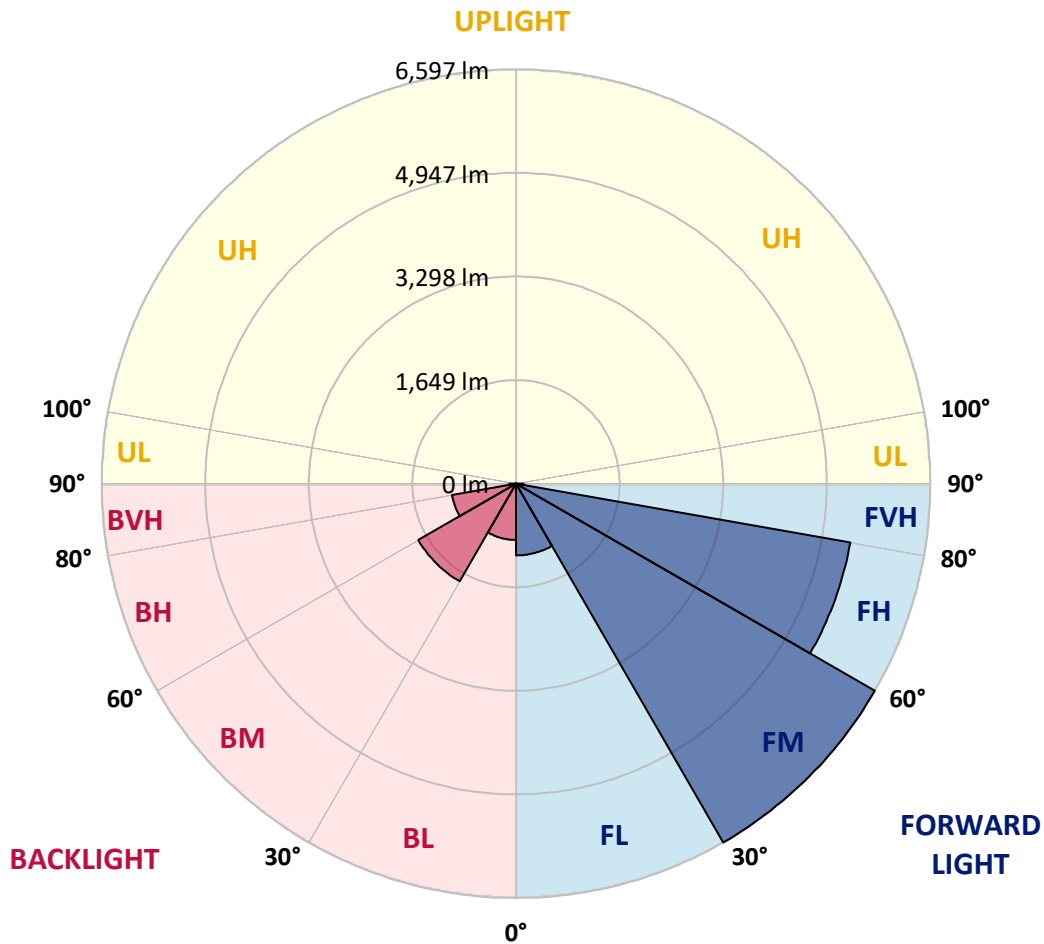


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1142.8	6.7			
FM (30°-60°)	6596.5	38.6			
FH (60°-80°)	5404.8	31.6			G3/7500
FVH (80°-90°)	121.0	0.7			G2/225
BL (0°-30°)	897.0	5.2	B2/1000		
BM (30°-60°)	1794.0	10.5	B2/2500		
BH (60°-80°)	1035.6	6.1	B3/2500		G3/2500
BVH (80°-90°)	108.4	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°	2052.5	2052.5	2052.5	2052.5	2052.5	2052.5	2052.5	2052.5	2052.5	2052.5
2.5°	1998.8	2009.6	2002.4	2023.9	2041.8	2041.8	2056.1	2045.4	2059.7	2079.4
5°	2065.0	2022.1	2045.4	2056.1	2050.7	2059.7	2045.4	2081.1	2057.9	2095.5
7.5°	2081.1	2097.3	2116.9	2099.0	2115.1	2106.2	2108.0	2102.6	2090.1	2120.5
10°	2199.3	2176.0	2220.7	2193.9	2190.3	2186.7	2179.6	2152.7	2183.1	2184.9
12.5°	2335.2	2313.8	2312.0	2290.5	2319.1	2267.2	2278.0	2263.7	2269.0	2276.2
15°	2433.7	2424.7	2465.9	2440.8	2403.2	2380.0	2405.0	2365.7	2385.4	2381.8
17.5°	2628.7	2626.9	2596.5	2555.4	2533.9	2499.9	2494.5	2478.4	2492.7	2485.6
20°	2764.7	2784.4	2789.8	2741.5	2659.1	2621.6	2612.6	2600.1	2616.2	2610.8
22.5°	2972.3	2941.9	2965.1	2881.0	2850.6	2761.1	2728.9	2711.0	2788.0	2768.3
25°	3104.7	3136.9	3113.7	3085.0	3017.0	2906.1	2882.8	2922.2	2952.6	2931.1
27.5°	3403.6	3371.3	3349.9	3264.0	3219.2	3102.9	3076.1	3061.8	3068.9	3081.5
30°	3630.8	3648.7	3600.4	3539.6	3426.8	3308.7	3246.1	3233.6	3208.5	3187.0
32.5°	3954.7	3927.9	3899.2	3859.9	3763.2	3607.6	3546.7	3500.2	3425.0	3324.8
35°	4110.4	4187.3	4165.9	4060.3	3986.9	3927.9	3910.0	3838.4	3775.8	3618.3
37.5°	4369.9	4402.1	4371.7	4337.7	4303.7	4241.0	4219.6	4239.2	4115.8	3856.3
40°	4538.1	4606.1	4668.7	4573.9	4566.7	4579.2	4446.8	4423.6	4169.4	4033.5
42.5°	4881.7	4910.3	4922.8	4919.2	4960.4	4960.4	4708.1	4658.0	4477.2	4366.3
45°	5336.2	5359.4	5404.2	5436.4	5389.9	5413.1	5053.4	5033.8	4872.7	4851.2
47.5°	5729.9	5785.3	5885.5	5980.4	6041.2	5962.5	5568.8	5429.2	5388.1	5516.9
50°	6073.4	6007.2	6241.6	6338.3	6604.9	6735.5	6137.9	6082.4	6016.2	6263.1
52.5°	6107.4	6196.9	6528.0	6721.2	7270.6	7512.2	6835.7	6812.5	6732.0	7016.5
55°	6350.8	6340.1	6672.9	7091.6	7744.8	8151.0	7744.8	7730.5	7555.1	7825.3
57.5°	6309.6	6418.8	6681.9	7267.0	8172.5	8836.4	8798.8	8700.4	8455.2	8675.3
60°	6170.1	6198.7	6519.0	7261.6	8421.2	9539.6	9936.9	9956.6	9455.5	9630.9
62.5°	5379.1	5445.3	5851.5	6690.8	8244.1	10024.6	11048.1	10978.4	10577.5	10377.1
65°	4278.6	4212.4	4634.7	5542.0	7141.7	9681.0	11534.9	11794.4	11164.5	10797.6
67.5°	2623.4	2607.2	3013.5	3813.3	5343.3	8238.7	11146.6	11348.8	11001.6	10708.1
70°	1351.0	1309.9	1564.0	2127.7	3358.8	6044.8	9700.7	9899.3	10230.4	9604.0
72.5°	629.9	620.9	756.9	1046.8	1710.7	3553.9	7512.2	7655.3	8353.2	8097.3
75°	370.4	375.8	452.7	547.6	833.9	1674.9	4985.4	5262.8	6019.8	5835.4
77.5°	277.4	277.4	322.1	381.2	486.7	647.8	2460.5	2827.4	3519.9	3165.6
80°	204.0	207.6	246.9	286.3	338.2	334.6	977.0	1145.3	1614.1	1379.7
82.5°	159.3	164.6	191.5	212.9	238.0	202.2	400.8	431.3	663.9	527.9
85°	110.9	114.5	150.3	144.9	144.9	112.7	166.4	175.4	263.1	250.5
87.5°	26.8	30.4	73.4	80.5	60.8	34.0	51.9	59.1	94.8	109.2
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°
2052.5	0°	2052.5	2052.5	2052.5	2052.5	2052.5	2052.5	2052.5	2052.5	2052.5	2052.5
2088.3	2.5°	2061.5	2068.6	2099.0	2082.9	2091.9	2054.3	2084.7	2059.7	2081.1	2070.4
2104.4	5°	2118.7	2102.6	2120.5	2108.0	2108.0	2122.3	2143.8	2127.7	2159.9	2145.6
2116.9	7.5°	2142.0	2143.8	2154.5	2156.3	2147.4	2192.1	2193.9	2188.5	2218.9	2211.8
2202.8	10°	2199.3	2201.0	2220.7	2231.5	2222.5	2238.6	2220.7	2206.4	2204.6	2197.5
2270.8	12.5°	2290.5	2308.4	2304.8	2313.8	2315.6	2247.6	2206.4	2136.6	2127.7	2136.6
2371.0	15°	2374.6	2367.5	2371.0	2388.9	2313.8	2204.6	2131.3	2072.2	2075.8	2077.6
2501.7	17.5°	2474.8	2480.2	2485.6	2403.2	2265.5	2136.6	2072.2	2072.2	2054.3	2061.5
2592.9	20°	2589.4	2567.9	2521.4	2405.0	2181.4	2057.9	2038.2	2038.2	2016.7	2002.4
2691.4	22.5°	2678.8	2635.9	2566.1	2349.6	2106.2	2027.5	1979.1	1945.1	1920.1	1891.5
2800.5	25°	2736.1	2712.8	2576.8	2292.3	2050.7	1946.9	1875.4	1823.5	1791.3	1753.7
2886.4	27.5°	2823.8	2779.0	2607.2	2226.1	1989.9	1866.4	1755.5	1674.9	1614.1	1574.7
3017.0	30°	2941.9	2877.5	2585.8	2131.3	1896.8	1726.8	1596.2	1492.4	1422.6	1390.4
3140.5	32.5°	3038.5	2954.4	2567.9	2045.4	1793.0	1585.5	1411.9	1306.3	1266.9	1225.8
3348.1	35°	3222.8	3056.4	2555.4	1997.0	1700.0	1444.1	1261.6	1170.3	1120.2	1059.4
3471.6	37.5°	3364.2	3233.6	2524.9	1896.8	1580.1	1306.3	1147.0	1064.7	989.6	925.2
3757.9	40°	3586.1	3480.5	2526.7	1755.5	1438.7	1188.2	1057.6	971.7	876.8	821.4
4182.0	42.5°	4003.0	3723.9	2537.5	1642.7	1279.5	1091.6	977.0	875.0	780.2	733.7
4665.1	45°	4514.8	4058.5	2471.2	1540.7	1116.6	1000.3	880.4	778.4	717.6	683.6
5321.9	47.5°	5103.5	4386.0	2381.8	1349.3	980.6	903.7	790.9	731.9	687.2	667.5
6168.3	50°	5762.1	4854.8	2356.7	1173.9	875.0	821.4	748.0	703.3	672.8	649.6
7122.1	52.5°	6610.3	5400.6	2306.6	993.2	783.8	755.2	731.9	701.5	674.6	654.9
8011.4	55°	7420.9	6005.4	2252.9	844.6	719.4	722.9	735.5	708.6	685.4	654.9
9008.2	57.5°	8333.5	6622.8	2054.3	735.5	671.0	706.8	731.9	701.5	678.2	654.9
10028.2	60°	8897.2	6970.0	1666.0	640.6	628.1	676.4	710.4	678.2	653.2	662.1
10497.0	62.5°	9126.3	6787.4	1256.2	581.6	597.7	635.3	676.4	663.9	646.0	680.0
10491.6	65°	8736.2	6366.9	898.3	531.5	556.5	594.1	646.0	660.3	665.7	731.9
9636.3	67.5°	7773.4	5543.8	660.3	490.3	513.6	569.0	667.5	690.7	687.2	769.5
8086.6	70°	6220.2	4335.9	515.4	456.3	497.5	588.7	697.9	697.9	672.8	769.5
6168.3	72.5°	4525.6	3056.4	443.8	416.9	456.3	540.4	694.3	692.5	660.3	703.3
3927.9	75°	2739.7	1778.7	391.9	377.6	391.9	463.5	663.9	653.2	608.4	604.8
1889.7	77.5°	1365.4	894.7	320.3	334.6	341.8	388.3	583.4	599.5	538.6	524.3
746.2	80°	576.2	390.1	266.6	288.1	288.1	327.5	484.9	495.7	447.4	420.5
295.3	82.5°	263.1	223.7	227.3	250.5	234.4	254.1	384.7	397.3	363.3	318.5
125.3	85°	110.9	127.1	173.6	196.8	173.6	164.6	264.8	279.2	236.2	196.8
53.7	87.5°	50.1	69.8	109.2	143.2	87.7	76.9	141.4	146.7	118.1	87.7
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>
2052.5
2050.7
2125.9
2201.0
2197.5
2140.2
2102.6
2063.3
1980.9
1875.4
1760.8
1592.6
1408.3
1224.0
1054.0
926.9
826.7
737.3
690.7
663.9
653.2
653.2
653.2
653.2
654.9
671.0
731.9
774.8
753.4
678.2
597.7
515.4
411.6
311.4
198.6
82.3
0.0

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