

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: P477630

Luminaire Tested: **IFLD-M-SA4A-722-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477630
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-722-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

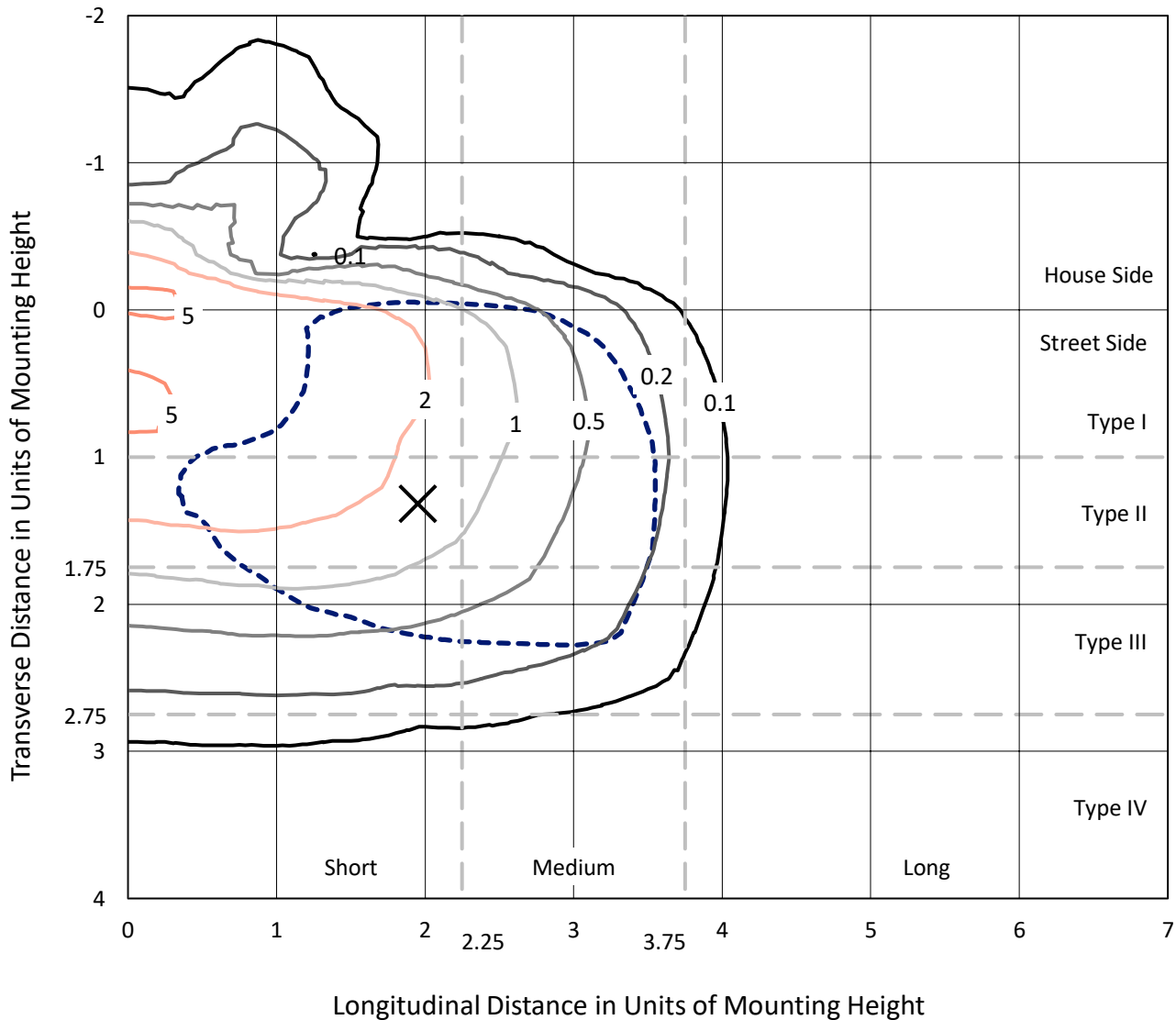
Lumens per Lamp: N/A
Luminaire Lumens: 13362.2 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 128.6
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

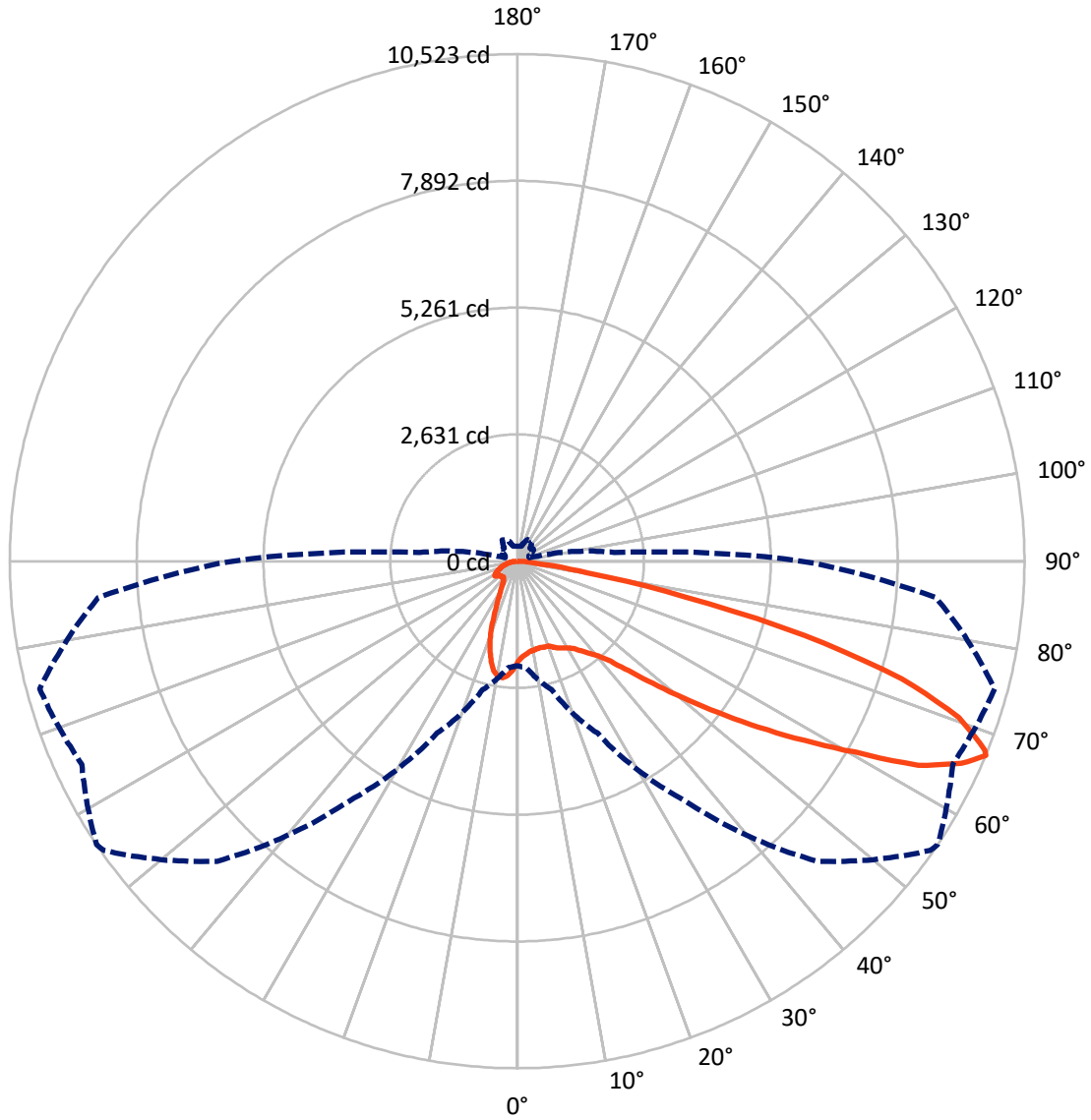
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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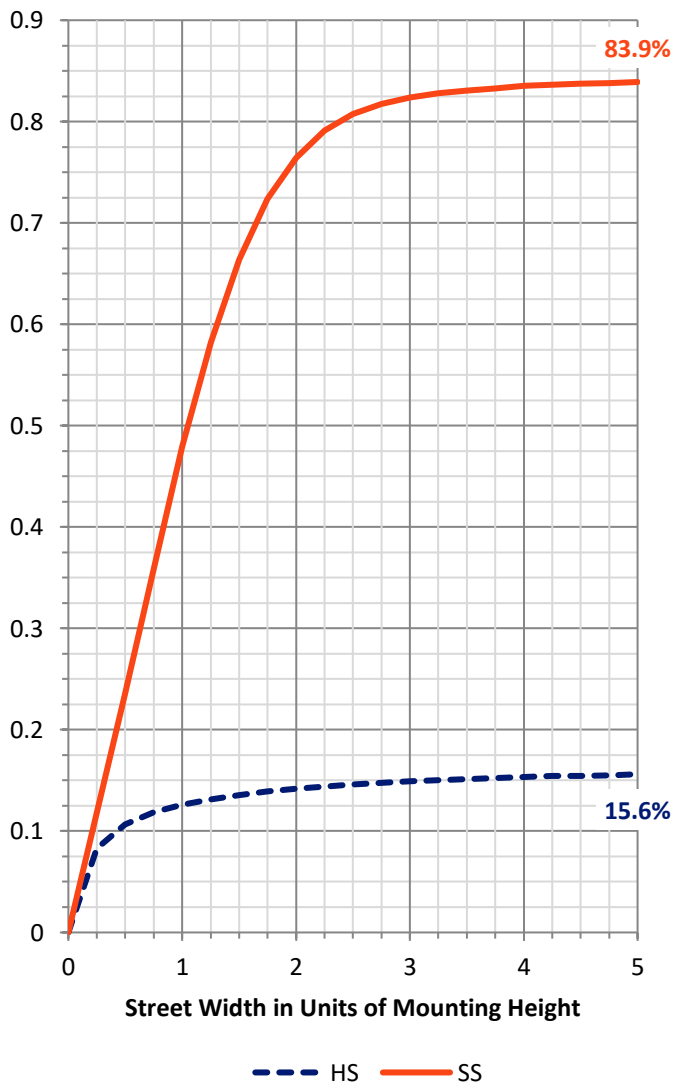
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2115.4	0.0	2115.4
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	11246.9	0.0	11246.9
	% Fixture	84.2	0.0	84.2
Total	Lumens	13362.2	0.0	13362.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.3	1.5
10°-20°	546.4	4.1
20°-30°	857.0	6.4
30°-40°	1223.3	9.2
40°-50°	1846.4	13.8
50°-60°	2939.1	22.0
60°-70°	3757.4	28.1
70°-80°	1832.0	13.7
80°-90°	160.3	1.2
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°	13362.2	100.0
0°-180°	13362.2	100.0

Coefficient of Utilization

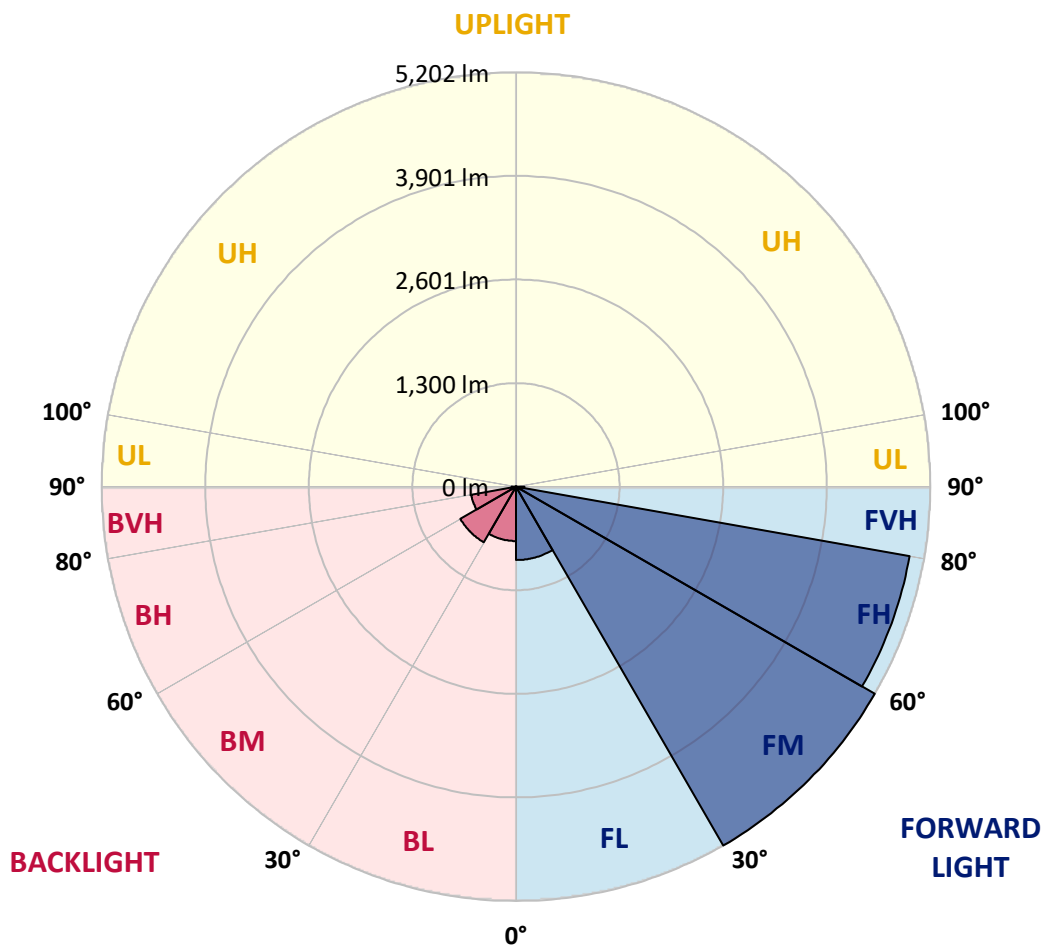


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	920.8	6.9			
FM (30°-60°)	5201.8	38.9			
FH (60°-80°)	5017.8	37.6			G3/7500
FVH (80°-90°)	106.4	0.8			G2/225
BL (0°-30°)	682.9	5.1	B2/1000		
BM (30°-60°)	807.0	6.0	B1/1000		
BH (60°-80°)	571.6	4.3	B2/1000		G2/1000
BVH (80°-90°)	53.8	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	2079.1	2079.1	2079.1	2079.1	2079.1	2079.1	2079.1	2079.1	2079.1	2079.1
2.5°	1909.9	1902.1	1911.5	1902.1	1944.4	1969.5	1977.3	1988.3	2027.4	2065.0
5°	1830.0	1795.5	1833.1	1845.7	1848.8	1891.1	1935.0	1942.8	1963.2	2024.3
7.5°	1696.8	1736.0	1721.9	1759.5	1798.7	1841.0	1913.1	1892.7	1967.9	2025.9
10°	1668.6	1671.8	1687.4	1701.5	1736.0	1790.8	1891.1	1878.6	1955.4	2079.1
12.5°	1696.8	1696.8	1692.1	1681.2	1720.3	1773.6	1853.5	1859.8	1980.4	2094.8
15°	1795.5	1814.3	1764.2	1772.0	1756.4	1773.6	1844.1	1858.2	1989.8	2107.3
17.5°	2036.8	2030.6	1971.0	1888.0	1819.0	1808.1	1856.6	1872.3	1980.4	2143.4
20°	2271.8	2259.3	2155.9	2069.7	1933.4	1869.2	1877.0	1878.6	1996.1	2166.9
22.5°	2533.5	2566.4	2453.6	2278.1	2108.9	1949.1	1917.8	1942.8	2032.1	2179.4
25°	2944.0	2873.5	2776.4	2546.0	2273.4	2072.9	1985.1	1997.7	2066.6	2210.7
27.5°	3240.1	3211.9	3059.9	2873.5	2503.7	2170.0	2021.2	2044.7	2129.3	2209.2
30°	3525.3	3525.3	3432.8	3153.9	2746.6	2332.9	2097.9	2087.0	2099.5	2206.0
32.5°	3859.0	3813.6	3680.4	3495.5	3052.1	2481.8	2159.0	2162.2	2162.2	2264.0
35°	4034.5	4108.1	4018.8	3718.0	3285.6	2729.3	2306.3	2282.8	2265.6	2328.2
37.5°	4291.4	4335.3	4241.3	4064.3	3575.4	2929.9	2436.4	2417.6	2317.3	2378.4
40°	4446.5	4438.7	4435.6	4354.1	3959.3	3166.5	2627.5	2578.9	2444.2	2555.4
42.5°	4534.3	4518.6	4711.3	4661.2	4321.2	3514.3	2867.2	2840.6	2691.7	2870.4
45°	4633.0	4748.9	4907.2	5048.2	4742.7	4003.1	3273.0	3235.4	3102.2	3329.4
47.5°	4719.2	4861.7	5063.9	5214.3	5123.4	4534.3	3774.4	3783.8	3696.1	3929.5
50°	4863.3	4877.4	5151.6	5455.6	5526.1	5024.7	4448.1	4432.4	4393.3	4720.7
52.5°	4819.4	4861.7	5208.0	5596.6	5712.5	5543.3	5172.0	5219.0	5167.3	5579.3
55°	4105.0	4231.9	5173.5	5745.4	6154.4	6129.3	6102.6	6071.3	6068.2	6544.5
57.5°	3780.7	3884.1	4557.8	5909.9	6627.5	6812.4	6984.7	7019.2	7017.7	7592.7
60°	3567.6	3674.1	4308.7	5820.6	7030.2	7707.0	8037.6	8042.3	8032.9	8712.9
62.5°	3150.8	3254.2	3877.8	5331.8	7141.4	8532.7	9269.1	9330.2	8899.4	9678.1
65°	2649.4	2734.0	3284.0	4584.4	6845.3	9057.6	10195.1	10123.0	9629.5	10229.6
67°	2166.9	2223.3	2759.1	3935.8	6071.3	8805.4	10463.0	10522.6	9966.3	10253.1
67.5°	2029.0	2080.7	2586.8	3714.9	5776.8	8614.2	10472.4	10463.0	9972.6	10257.8
70°	1408.5	1430.5	1762.6	2555.4	4255.4	7277.7	9707.8	9729.8	9554.3	9701.6
72.5°	933.8	966.7	1178.2	1610.7	2508.4	5295.7	8114.4	8349.4	8238.2	7954.6
75°	601.6	620.4	770.9	958.9	1234.6	3016.1	5994.5	6151.2	5895.8	4919.7
77.5°	336.9	357.2	465.3	582.8	601.6	1255.0	3367.0	3561.3	3017.6	2090.1
80°	209.9	236.6	351.0	346.3	286.7	460.6	1388.2	1486.9	1206.4	719.2
82.5°	158.2	178.6	271.1	242.9	161.4	205.2	520.2	557.8	441.8	277.3
85°	108.1	136.3	195.8	150.4	84.6	98.7	206.8	222.5	202.1	134.7
87.5°	39.2	58.0	101.8	75.2	37.6	29.8	67.4	75.2	72.1	61.1
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°
2079.1	0°	2079.1	2079.1	2079.1	2079.1	2079.1	2079.1	2079.1	2079.1	2079.1	2079.1
2097.9	2.5°	2127.7	2149.6	2160.6	2224.8	2251.5	2246.8	2253.0	2262.4	2271.8	2284.4
2124.6	5°	2144.9	2212.3	2248.3	2323.5	2373.7	2351.8	2380.0	2372.1	2361.2	2359.6
2173.1	7.5°	2201.3	2287.5	2395.6	2416.0	2437.9	2383.1	2336.1	2271.8	2256.2	2201.3
2213.9	10°	2301.6	2372.1	2503.7	2511.6	2414.4	2273.4	2168.4	2035.3	2033.7	1953.8
2276.5	12.5°	2397.2	2477.1	2583.6	2538.2	2306.3	2113.6	1942.8	1797.1	1736.0	1695.3
2314.1	15°	2456.7	2588.3	2644.7	2448.9	2116.7	1856.6	1635.7	1479.0	1416.4	1386.6
2361.2	17.5°	2511.6	2694.9	2669.8	2292.2	1883.3	1591.9	1328.6	1192.3	1175.1	1153.2
2436.4	20°	2586.8	2734.0	2580.5	2088.5	1618.5	1250.3	1082.7	1016.8	1032.5	1041.9
2444.2	22.5°	2657.3	2754.4	2467.7	1866.0	1278.5	990.2	907.2	921.3	944.8	976.1
2463.0	25°	2688.6	2787.3	2315.7	1559.0	973.0	833.5	814.7	838.2	877.4	879.0
2489.6	27.5°	2709.0	2763.8	2132.4	1259.7	769.3	728.6	756.8	774.0	778.7	797.5
2546.0	30°	2745.0	2715.2	1900.5	900.9	645.5	647.1	683.1	683.1	683.1	697.2
2602.4	32.5°	2807.7	2682.3	1629.5	658.1	556.2	606.3	596.9	593.8	587.5	570.3
2674.5	35°	2846.9	2593.0	1286.3	487.3	499.8	556.2	553.1	504.5	423.0	382.3
2857.8	37.5°	2928.3	2547.6	946.3	376.0	466.9	531.1	513.9	396.4	307.1	267.9
3085.0	40°	3103.8	2517.8	654.9	329.0	445.0	518.6	459.1	338.4	235.0	166.1
3436.0	42.5°	3318.5	2519.4	445.0	310.2	446.5	545.2	441.8	289.9	166.1	133.2
3904.4	45°	3606.8	2495.9	305.5	310.2	474.7	589.1	452.8	263.2	161.4	169.2
4492.0	47.5°	3917.0	2516.3	227.2	282.0	479.4	590.7	413.6	258.5	155.1	195.8
5131.2	50°	4278.9	2536.6	188.0	260.1	481.0	571.9	380.7	252.3	161.4	206.8
5864.5	52.5°	4651.8	2600.9	159.8	246.0	499.8	564.0	380.7	261.7	161.4	180.2
6798.3	55°	5208.0	2765.4	230.3	307.1	568.7	615.7	468.5	366.6	225.6	231.9
7692.9	57.5°	5822.2	2934.6	257.0	322.8	584.4	554.6	504.5	404.2	238.2	239.7
8388.6	60°	6226.4	2940.9	255.4	314.9	546.8	479.4	493.5	426.2	242.9	205.2
8819.5	62.5°	6387.8	2749.7	266.4	314.9	509.2	448.1	506.1	459.1	250.7	257.0
8941.7	65°	6204.5	2354.9	257.0	282.0	448.1	401.1	509.2	465.3	274.2	258.5
8722.3	67°	5917.8	2029.0	261.7	267.9	416.8	380.7	535.8	488.8	318.1	310.2
8607.9	67.5°	5836.3	1942.8	260.1	260.1	405.8	374.5	542.1	488.8	324.3	321.2
7597.4	70°	5143.8	1574.6	266.4	257.0	358.8	355.7	576.6	515.5	372.9	376.0
5580.9	72.5°	3915.4	1193.9	264.8	257.0	311.8	340.0	581.3	532.7	405.8	376.0
3125.7	75°	2224.8	714.5	233.5	224.1	246.0	296.1	543.7	507.6	394.8	336.9
1248.7	77.5°	919.7	368.2	214.7	202.1	203.7	241.3	452.8	473.2	376.0	286.7
416.8	80°	343.1	220.9	172.3	161.4	156.7	177.0	322.8	377.6	321.2	235.0
183.3	82.5°	178.6	137.9	117.5	117.5	106.5	112.8	173.9	250.7	242.9	161.4
73.6	85°	90.9	78.3	67.4	65.8	59.5	53.3	87.7	148.8	139.4	89.3
32.9	87.5°	48.6	43.9	28.2	26.6	21.9	14.1	15.7	29.8	48.6	39.2
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>
2079.1
2296.9
2373.7
2220.1
1950.7
1685.9
1380.3
1164.1
1030.9
958.9
894.6
814.7
712.9
560.9
401.1
266.4
161.4
130.0
172.3
217.8
239.7
184.9
244.4
231.9
211.5
260.1
253.8
305.5
314.9
347.8
333.7
300.8
271.1
214.7
126.9
73.6
28.2
0.0

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