

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: P477942

Luminaire Tested: **IFLD-M-SA4A-830-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477942
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-830-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

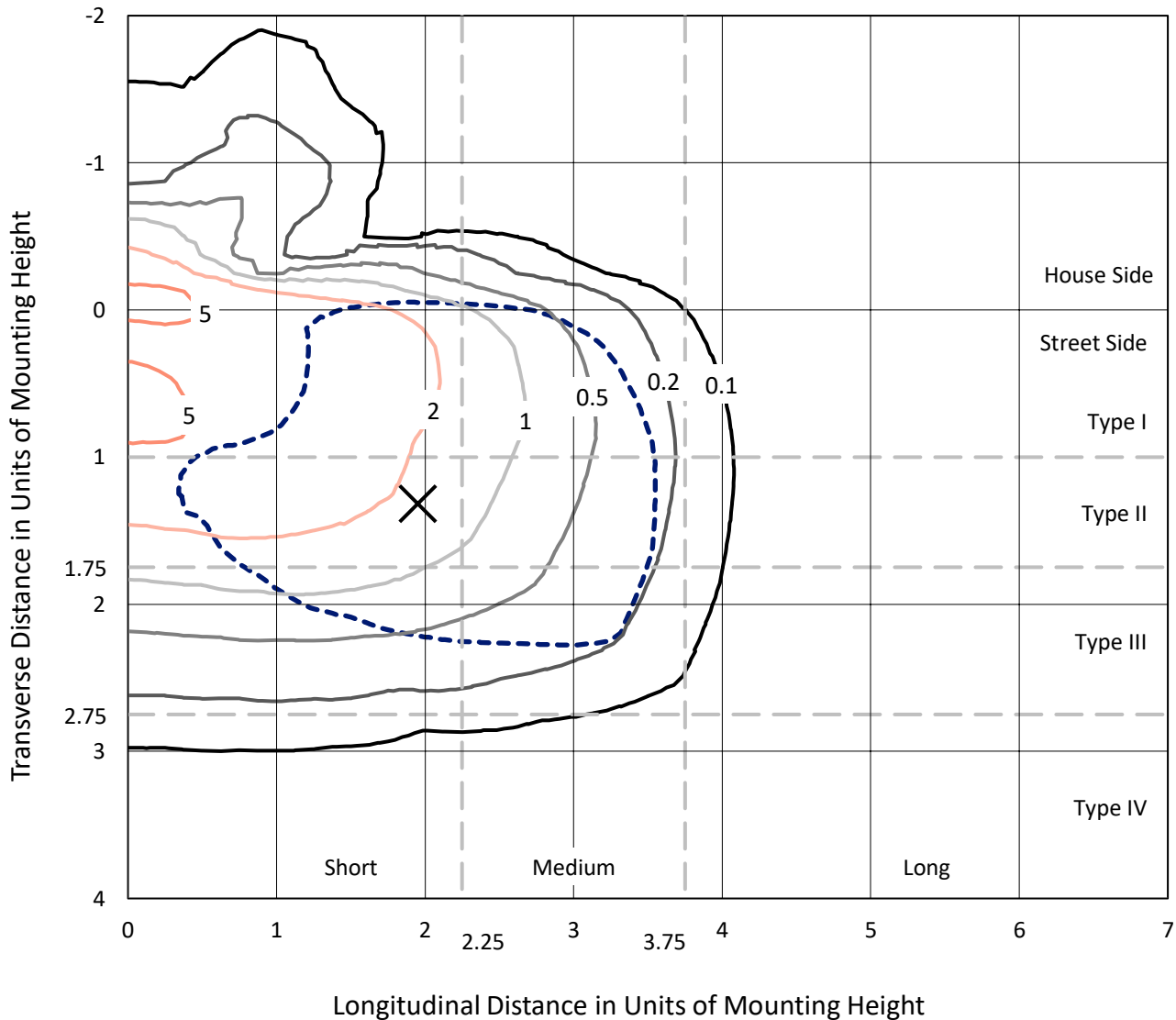
Lumens per Lamp: N/A
Luminaire Lumens: 14414.4 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

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

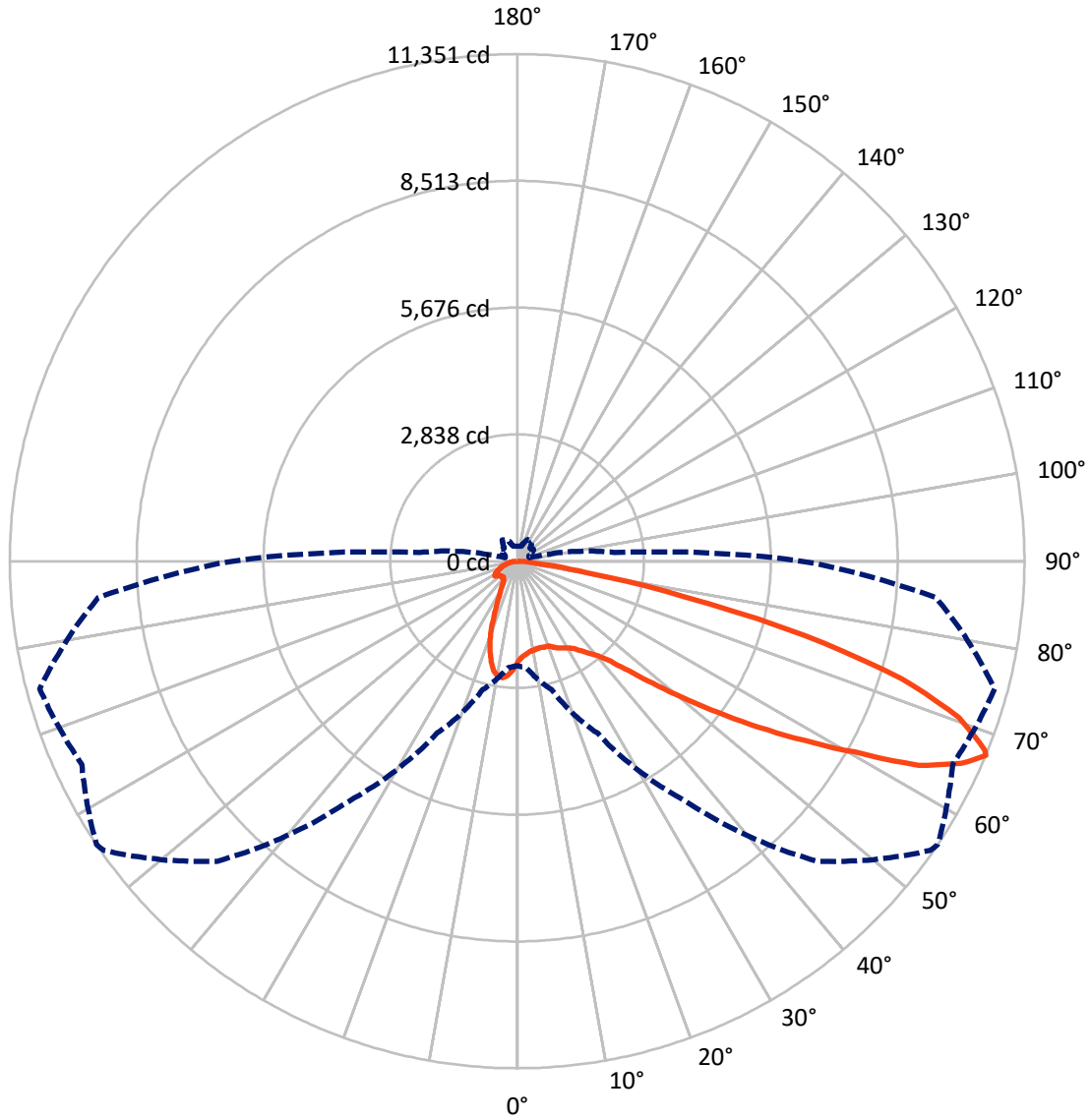
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.2 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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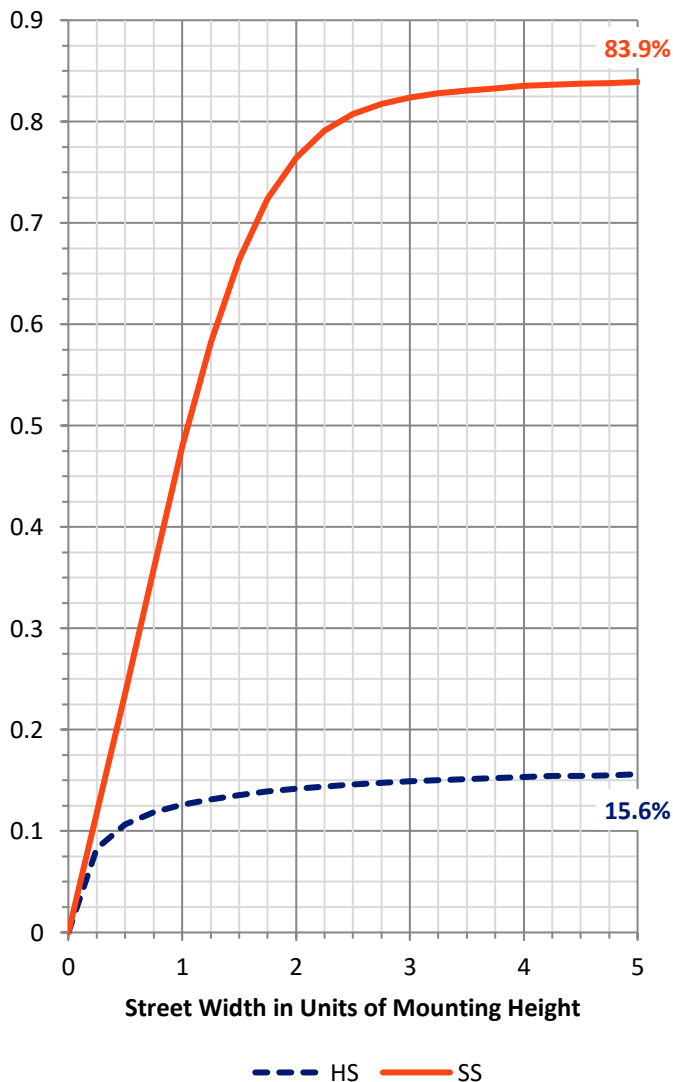
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2282.0	0.0	2282.0
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	12132.4	0.0	12132.4
	% Fixture	84.2	0.0	84.2
Total	Lumens	14414.4	0.0	14414.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.1	1.5
10°-20°	589.5	4.1
20°-30°	924.5	6.4
30°-40°	1319.7	9.2
40°-50°	1991.8	13.8
50°-60°	3170.5	22.0
60°-70°	4053.3	28.1
70°-80°	1976.2	13.7
80°-90°	172.9	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°	14414.4	100.0
0°-180°	14414.4	100.0

Coefficient of Utilization

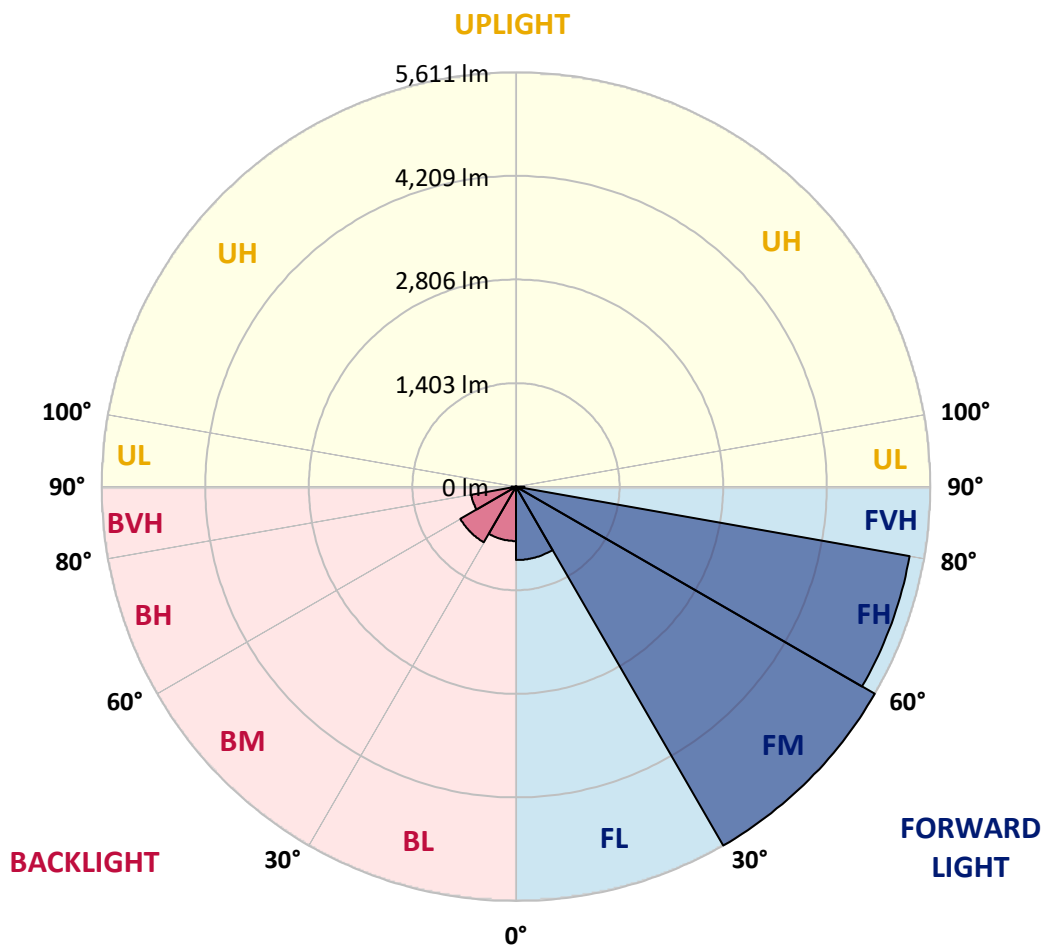


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	993.3	6.9			
FM (30°-60°)	5611.4	38.9			
FH (60°-80°)	5412.9	37.6			G3/7500
FVH (80°-90°)	114.8	0.8			G2/225
BL (0°-30°)	736.7	5.1	B2/1000		
BM (30°-60°)	870.6	6.0	B1/1000		
BH (60°-80°)	616.6	4.3	B2/1000		G2/1000
BVH (80°-90°)	58.1	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°	2242.8	2242.8	2242.8	2242.8	2242.8	2242.8	2242.8	2242.8	2242.8	2242.8
2.5°	2060.3	2051.9	2062.0	2051.9	2097.5	2124.5	2133.0	2144.8	2187.1	2227.6
5°	1974.1	1936.9	1977.5	1991.0	1994.4	2040.0	2087.3	2095.8	2117.8	2183.7
7.5°	1830.4	1872.7	1857.5	1898.0	1940.3	1985.9	2063.7	2041.7	2122.8	2185.4
10°	1800.0	1803.4	1820.3	1835.5	1872.7	1931.9	2040.0	2026.5	2109.3	2242.8
12.5°	1830.4	1830.4	1825.4	1813.5	1855.8	1913.3	1999.5	2006.2	2136.4	2259.7
15°	1936.9	1957.2	1903.1	1911.6	1894.7	1913.3	1989.3	2004.5	2146.5	2273.3
17.5°	2197.2	2190.4	2126.2	2036.6	1962.3	1950.4	2002.8	2019.7	2136.4	2312.1
20°	2450.7	2437.2	2325.7	2232.7	2085.7	2016.4	2024.8	2026.5	2153.3	2337.5
22.5°	2733.0	2768.5	2646.8	2457.5	2275.0	2102.6	2068.8	2095.8	2192.1	2351.0
25°	3175.8	3099.8	2995.0	2746.5	2452.4	2236.1	2141.4	2155.0	2229.3	2384.8
27.5°	3495.2	3464.8	3300.9	3099.8	2700.9	2340.9	2180.3	2205.7	2296.9	2383.1
30°	3802.9	3802.9	3703.1	3402.3	2962.8	2516.6	2263.1	2251.3	2264.8	2379.7
32.5°	4162.9	4113.8	3970.2	3770.7	3292.4	2677.2	2329.0	2332.4	2332.4	2442.3
35°	4352.2	4431.6	4335.3	4010.7	3544.3	2944.3	2487.9	2462.6	2444.0	2511.6
37.5°	4629.3	4676.7	4575.3	4384.3	3856.9	3160.6	2628.2	2607.9	2499.7	2565.7
40°	4796.7	4788.2	4784.8	4697.0	4271.0	3415.8	2834.4	2782.0	2636.6	2756.6
42.5°	4891.3	4874.4	5082.3	5028.2	4661.5	3791.0	3093.0	3064.3	2903.7	3096.4
45°	4997.8	5122.9	5293.6	5445.7	5116.1	4318.4	3530.7	3490.2	3346.5	3591.6
47.5°	5090.8	5244.6	5462.6	5624.8	5526.8	4891.3	4071.6	4081.7	3987.1	4238.9
50°	5246.3	5261.5	5557.2	5885.1	5961.2	5420.3	4798.4	4781.5	4739.2	5092.4
52.5°	5198.9	5244.6	5618.1	6037.2	6162.3	5979.8	5579.2	5629.9	5574.1	6018.7
55°	4428.2	4565.1	5580.9	6197.8	6638.9	6611.9	6583.2	6549.4	6546.0	7059.8
57.5°	4078.4	4189.9	4916.7	6375.3	7149.4	7348.8	7534.7	7571.9	7570.2	8190.5
60°	3848.5	3963.4	4647.9	6278.9	7583.7	8313.9	8670.5	8675.6	8665.4	9399.0
62.5°	3398.9	3510.5	4183.1	5751.6	7703.7	9204.6	9999.0	10064.9	9600.1	10440.1
65°	2858.1	2949.3	3542.6	4945.4	7384.3	9770.8	10997.9	10920.1	10387.7	11035.0
67°	2337.5	2398.3	2976.4	4245.7	6549.4	9498.7	11286.9	11351.1	10751.1	11060.4
67.5°	2188.8	2244.5	2790.5	4007.4	6231.6	9292.5	11297.0	11286.9	10757.9	11065.5
70°	1519.5	1543.1	1901.4	2756.6	4590.5	7850.8	10472.2	10495.9	10306.6	10465.5
72.5°	1007.3	1042.8	1271.0	1737.5	2705.9	5712.7	8753.3	9006.9	8886.9	8580.9
75°	649.0	669.3	831.6	1034.4	1331.8	3253.6	6466.5	6635.6	6360.1	5307.1
77.5°	363.4	385.4	502.0	628.7	649.0	1353.8	3632.2	3841.7	3255.2	2254.7
80°	226.5	255.2	378.6	373.5	309.3	496.9	1497.5	1604.0	1301.4	775.8
82.5°	170.7	192.7	292.4	262.0	174.1	221.4	561.1	601.7	476.6	299.2
85°	116.6	147.0	211.3	162.3	91.3	106.5	223.1	240.0	218.0	145.4
87.5°	42.3	62.5	109.9	81.1	40.6	32.1	72.7	81.1	77.7	65.9
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°
2242.8	0°	2242.8	2242.8	2242.8	2242.8	2242.8	2242.8	2242.8	2242.8	2242.8	2242.8
2263.1	2.5°	2295.2	2318.9	2330.7	2400.0	2428.8	2423.7	2430.4	2440.6	2450.7	2464.3
2291.9	5°	2313.8	2386.5	2425.4	2506.5	2560.6	2536.9	2567.4	2558.9	2547.1	2545.4
2344.3	7.5°	2374.7	2467.6	2584.3	2606.2	2629.9	2570.7	2520.0	2450.7	2433.8	2374.7
2388.2	10°	2482.8	2558.9	2700.9	2709.3	2604.5	2452.4	2339.2	2195.5	2193.8	2107.6
2455.8	12.5°	2585.9	2672.1	2787.1	2738.1	2487.9	2280.0	2095.8	1938.6	1872.7	1828.8
2496.4	15°	2650.2	2792.1	2853.0	2641.7	2283.4	2002.8	1764.5	1595.5	1527.9	1495.8
2547.1	17.5°	2709.3	2907.1	2880.0	2472.7	2031.6	1717.2	1433.3	1286.2	1267.6	1244.0
2628.2	20°	2790.5	2949.3	2783.7	2253.0	1745.9	1348.7	1167.9	1096.9	1113.8	1124.0
2636.6	22.5°	2866.5	2971.3	2662.0	2013.0	1379.2	1068.2	978.6	993.8	1019.2	1053.0
2656.9	25°	2900.3	3006.8	2498.1	1681.7	1049.6	899.2	878.9	904.2	946.5	948.2
2685.7	27.5°	2922.3	2981.4	2300.3	1358.9	829.9	785.9	816.3	834.9	840.0	860.3
2746.5	30°	2961.2	2929.0	2050.2	971.8	696.3	698.0	736.9	736.9	736.9	752.1
2807.4	32.5°	3028.8	2893.6	1757.8	709.9	600.0	654.1	644.0	640.6	633.8	615.2
2885.1	35°	3071.0	2797.2	1387.6	525.6	539.2	600.0	596.6	544.2	456.3	412.4
3082.9	37.5°	3158.9	2748.2	1020.9	405.6	503.7	573.0	554.4	427.6	331.3	289.0
3327.9	40°	3348.2	2716.1	706.5	354.9	480.0	559.4	495.2	365.1	253.5	179.2
3706.5	42.5°	3579.8	2717.8	480.0	334.7	481.7	588.2	476.6	312.7	179.2	143.7
4211.9	45°	3890.7	2692.4	329.6	334.7	512.1	635.5	488.5	283.9	174.1	182.5
4845.7	47.5°	4225.4	2714.4	245.1	304.2	517.2	637.2	446.2	278.9	167.3	211.3
5535.3	50°	4615.8	2736.4	202.8	280.6	518.9	616.9	410.7	272.1	174.1	223.1
6326.3	52.5°	5018.1	2805.7	172.4	265.4	539.2	608.5	410.7	282.3	174.1	194.4
7333.6	55°	5618.1	2983.1	248.5	331.3	613.5	664.2	505.4	395.5	243.4	250.1
8298.7	57.5°	6280.6	3165.7	277.2	348.2	630.4	598.3	544.2	436.1	256.9	258.6
9049.1	60°	6716.7	3172.4	275.5	339.7	589.9	517.2	532.4	459.7	262.0	221.4
9513.9	62.5°	6890.8	2966.2	287.3	339.7	549.3	483.4	545.9	495.2	270.4	277.2
9645.7	65°	6693.0	2540.3	277.2	304.2	483.4	432.7	549.3	502.0	295.8	278.9
9409.1	67°	6383.7	2188.8	282.3	289.0	449.6	410.7	578.0	527.3	343.1	334.7
9285.7	67.5°	6295.8	2095.8	280.6	280.6	437.8	403.9	584.8	527.3	349.9	346.5
8195.6	70°	5548.8	1698.6	287.3	277.2	387.0	383.7	622.0	556.1	402.3	405.6
6020.3	72.5°	4223.7	1287.9	285.6	277.2	336.3	366.8	627.0	574.7	437.8	405.6
3371.9	75°	2400.0	770.7	251.8	241.7	265.4	319.4	586.5	547.6	425.9	363.4
1347.1	77.5°	992.1	397.2	231.6	218.0	219.7	260.3	488.5	510.4	405.6	309.3
449.6	80°	370.1	238.3	185.9	174.1	169.0	191.0	348.2	407.3	346.5	253.5
197.7	82.5°	192.7	148.7	126.8	126.8	114.9	121.7	187.6	270.4	262.0	174.1
79.4	85°	98.0	84.5	72.7	71.0	64.2	57.5	94.6	160.6	150.4	96.3
35.5	87.5°	52.4	47.3	30.4	28.7	23.7	15.2	16.9	32.1	52.4	42.3
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°
2242.8
2477.8
2560.6
2395.0
2104.2
1818.6
1489.0
1255.8
1112.1
1034.4
965.1
878.9
769.0
605.1
432.7
287.3
174.1
140.3
185.9
234.9
258.6
199.4
263.7
250.1
228.2
280.6
273.8
329.6
339.7
375.2
360.0
324.5
292.4
231.6
136.9
79.4
30.4
0.0

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