

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: P477534

Luminaire Tested: **IFLD-S-SA3C-830-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477534
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-830-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

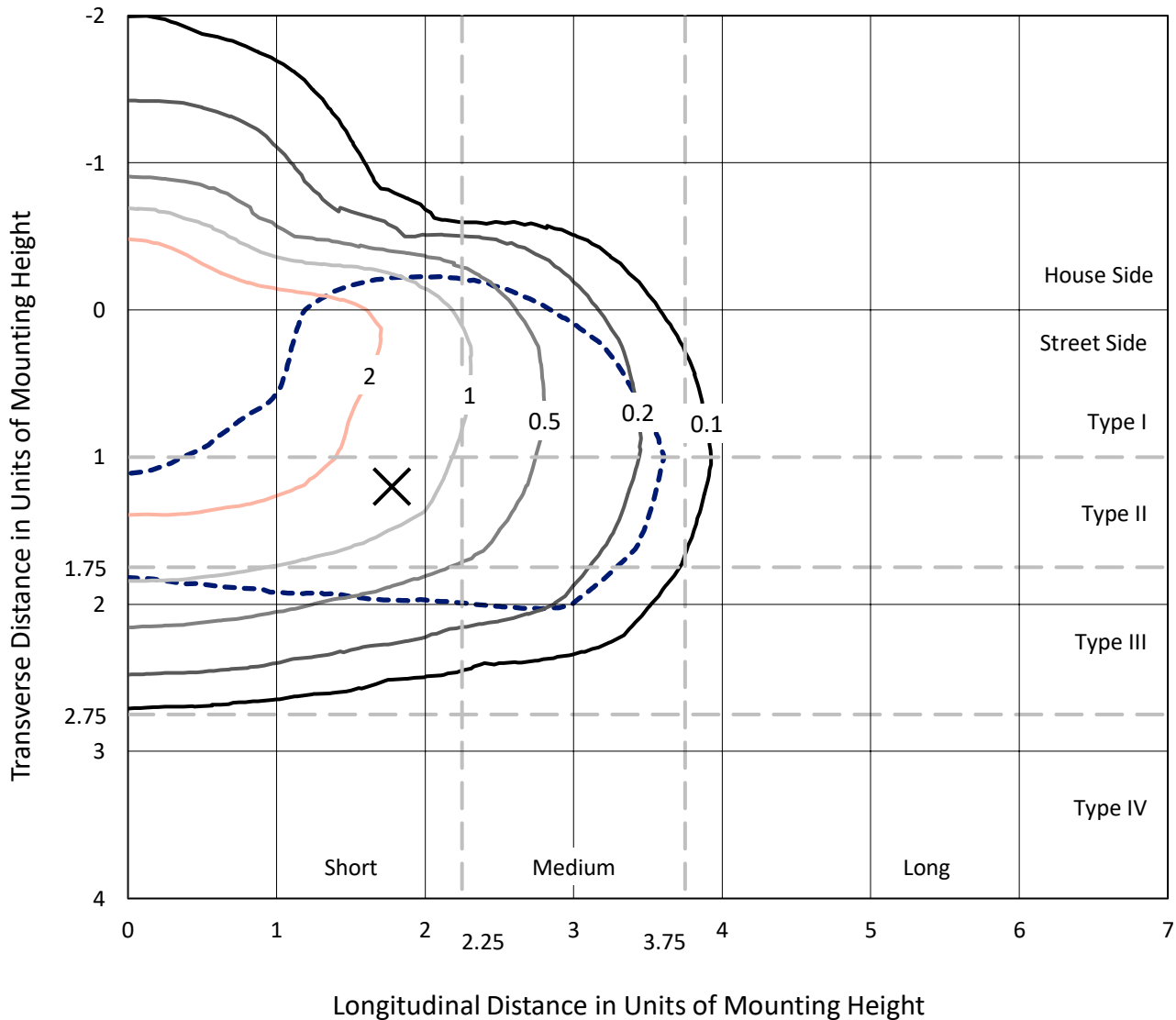
Lumens per Lamp: N/A
Luminaire Lumens: 17142.9 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 160.8
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

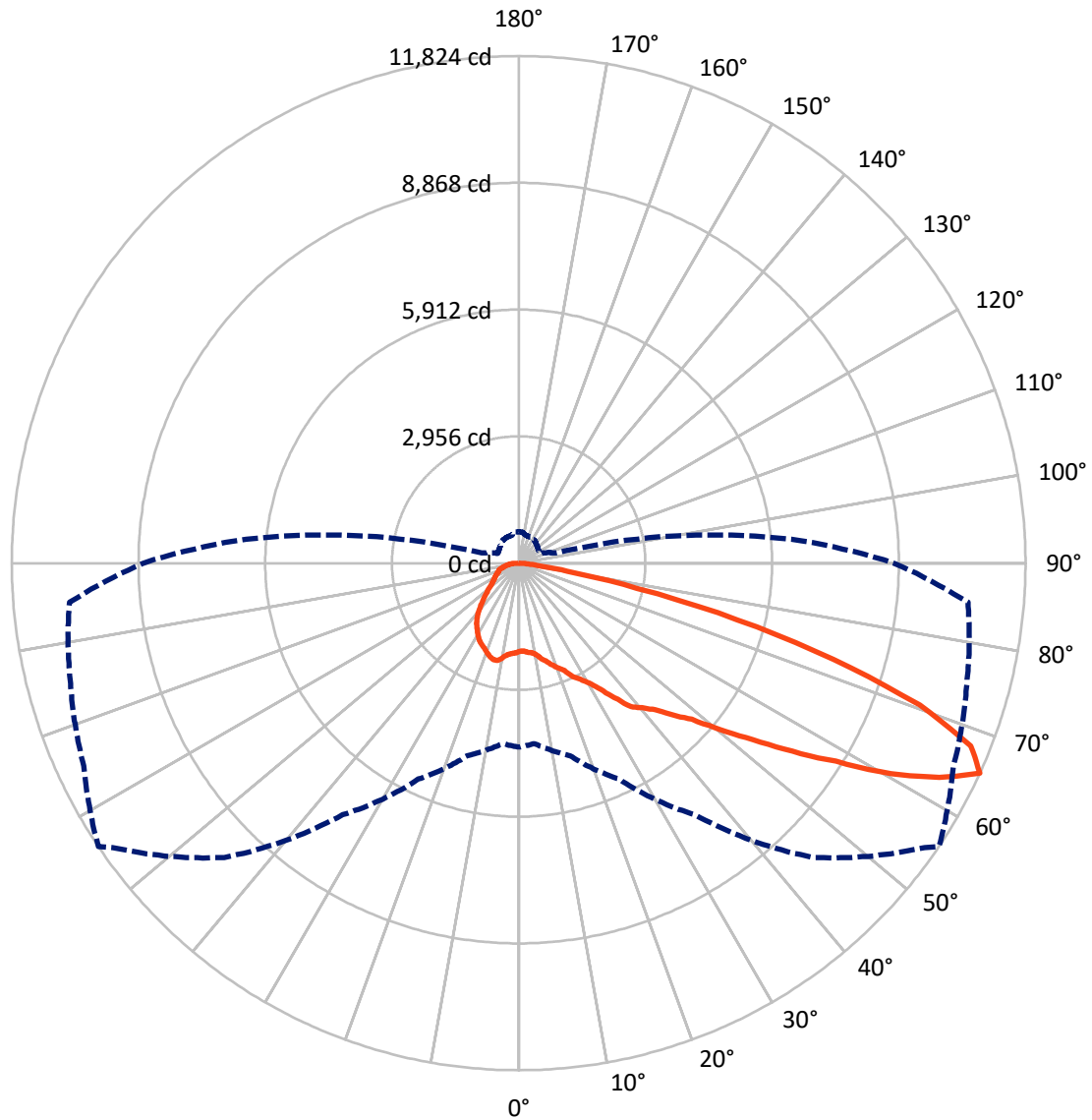
✕ Max cd
 - - - 1/2 Max cd



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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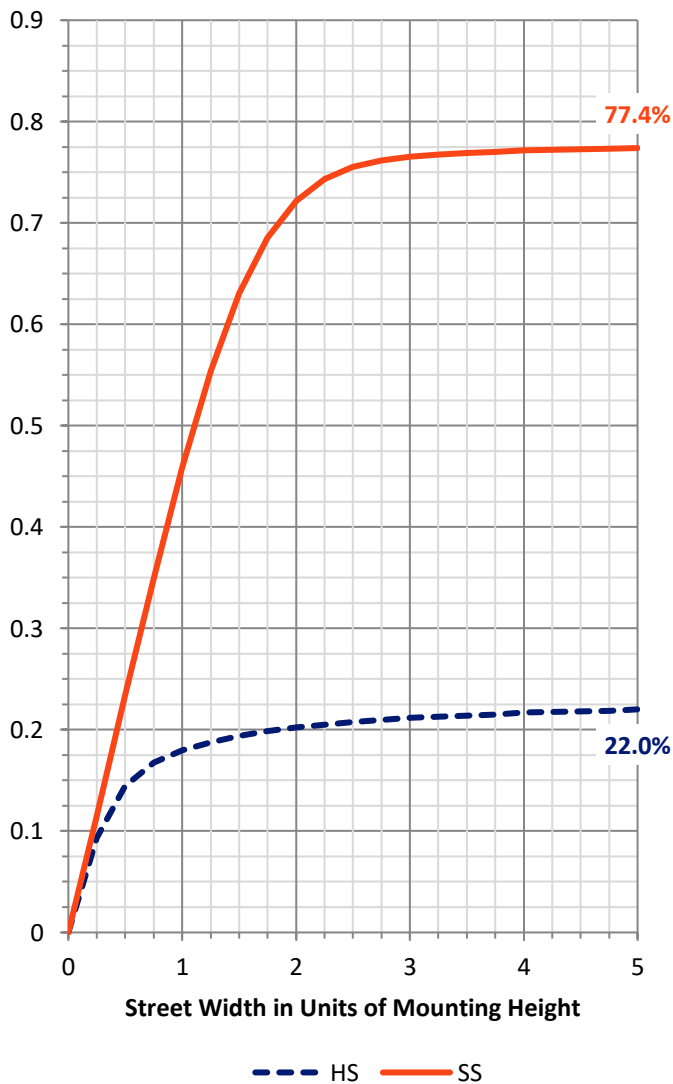
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3844.6	0.0	3844.6
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	13298.3	0.0	13298.3
	% Fixture	77.6	0.0	77.6
Total	Lumens	17142.9	0.0	17142.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.9	1.2
10°-20°	662.1	3.9
20°-30°	1178.9	6.9
30°-40°	1765.4	10.3
40°-50°	2615.7	15.3
50°-60°	4030.4	23.5
60°-70°	4562.9	26.6
70°-80°	1893.6	11.0
80°-90°	230.1	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°	17142.9	100.0
0°-180°	17142.9	100.0

Coefficient of Utilization

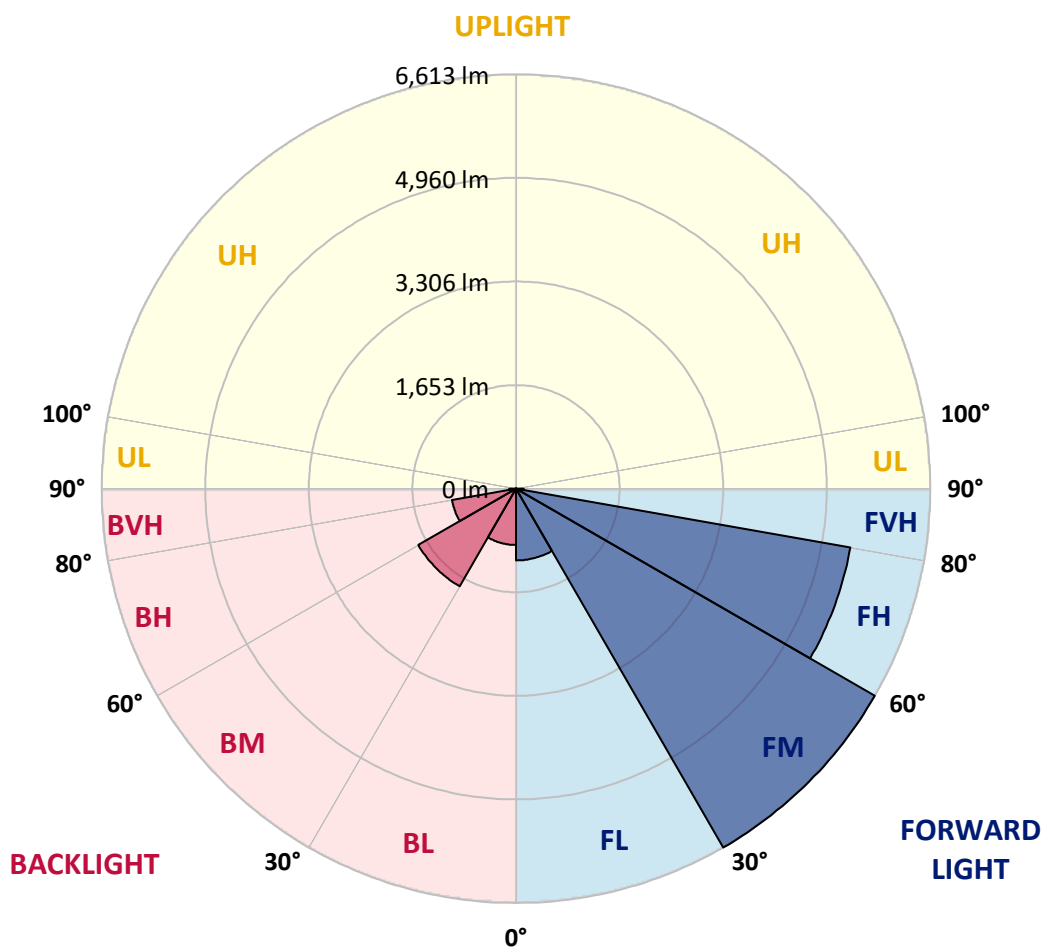


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1145.6	6.7			
FM (30°-60°)	6613.0	38.6			
FH (60°-80°)	5418.3	31.6			G3/7500
FVH (80°-90°)	121.3	0.7			G2/225
BL (0°-30°)	899.3	5.2	B2/1000		
BM (30°-60°)	1798.4	10.5	B2/2500		
BH (60°-80°)	1038.2	6.1	B3/2500		G3/2500
BVH (80°-90°)	108.7	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°	2057.6	2057.6	2057.6	2057.6	2057.6	2057.6	2057.6	2057.6	2057.6	2057.6
2.5°	2003.8	2014.6	2007.4	2028.9	2046.9	2046.9	2061.2	2050.5	2064.8	2084.5
5°	2070.2	2027.1	2050.5	2061.2	2055.8	2064.8	2050.5	2086.3	2063.0	2100.7
7.5°	2086.3	2102.5	2122.2	2104.3	2120.4	2111.5	2113.3	2107.9	2095.3	2125.8
10°	2204.7	2181.4	2226.3	2199.4	2195.8	2192.2	2185.0	2158.1	2188.6	2190.4
12.5°	2341.1	2319.6	2317.8	2296.2	2324.9	2272.9	2283.7	2269.3	2274.7	2281.9
15°	2439.7	2430.8	2472.0	2446.9	2409.3	2385.9	2411.0	2371.6	2391.3	2387.7
17.5°	2635.3	2633.5	2603.0	2561.7	2540.2	2506.1	2500.7	2484.6	2498.9	2491.8
20°	2771.6	2791.4	2796.7	2748.3	2665.8	2628.1	2619.1	2606.6	2622.7	2617.3
22.5°	2979.7	2949.2	2972.5	2888.2	2857.7	2768.0	2735.7	2717.8	2794.9	2775.2
25°	3112.5	3144.8	3121.4	3092.7	3024.6	2913.3	2890.0	2929.5	2960.0	2938.5
27.5°	3412.1	3379.8	3358.2	3272.1	3227.3	3110.7	3083.8	3069.4	3076.6	3089.2
30°	3639.9	3657.8	3609.4	3548.4	3435.4	3317.0	3254.2	3241.6	3216.5	3195.0
32.5°	3964.6	3937.7	3909.0	3869.5	3772.6	3616.6	3555.6	3508.9	3433.6	3333.1
35°	4120.7	4197.8	4176.3	4070.4	3996.9	3937.7	3919.7	3848.0	3785.2	3627.3
37.5°	4380.8	4413.1	4382.6	4348.5	4314.4	4251.6	4230.1	4249.8	4126.0	3865.9
40°	4549.4	4617.6	4680.4	4585.3	4578.1	4590.7	4457.9	4434.6	4179.9	4043.5
42.5°	4893.8	4922.5	4935.1	4931.5	4972.8	4972.8	4719.8	4669.6	4488.4	4377.2
45°	5349.5	5372.8	5417.7	5450.0	5403.3	5426.6	5066.1	5046.3	4884.9	4863.3
47.5°	5744.2	5799.8	5900.2	5995.3	6056.3	5977.4	5582.7	5442.8	5401.5	5530.7
50°	6088.6	6022.2	6257.2	6354.1	6621.4	6752.4	6153.2	6097.6	6031.2	6278.8
52.5°	6122.7	6212.4	6544.3	6738.0	7288.7	7530.9	6852.8	6829.5	6748.8	7034.0
55°	6366.7	6355.9	6689.6	7109.4	7764.1	8171.4	7764.1	7749.8	7574.0	7844.9
57.5°	6325.4	6434.8	6698.5	7285.2	8192.9	8858.4	8820.8	8722.1	8476.3	8697.0
60°	6185.5	6214.2	6535.3	7279.8	8442.2	9563.5	9961.7	9981.4	9479.1	9654.9
62.5°	5392.6	5458.9	5866.2	6707.5	8264.6	10049.6	11075.7	11005.8	10603.9	10403.0
65°	4289.3	4222.9	4646.3	5555.8	7159.6	9705.2	11563.7	11823.8	11192.3	10824.6
67.5°	2629.9	2613.8	3021.0	3822.9	5356.7	8259.3	11174.4	11377.1	11029.1	10734.9
70°	1354.4	1313.2	1567.9	2133.0	3367.2	6059.9	9724.9	9924.0	10255.9	9628.0
72.5°	631.5	622.5	758.8	1049.5	1715.0	3562.7	7530.9	7674.4	8374.1	8117.5
75°	371.3	376.7	453.9	548.9	836.0	1679.1	4997.9	5276.0	6034.8	5850.0
77.5°	278.1	278.1	322.9	382.1	487.9	649.4	2466.7	2834.4	3528.7	3173.5
80°	204.5	208.1	247.6	287.0	339.1	335.5	979.5	1148.1	1618.1	1383.1
82.5°	159.7	165.0	192.0	213.5	238.6	202.7	401.8	432.3	665.5	529.2
85°	111.2	114.8	150.7	145.3	145.3	113.0	166.8	175.8	263.7	251.2
87.5°	26.9	30.5	73.6	80.7	61.0	34.1	52.0	59.2	95.1	109.4
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°
2057.6	0°	2057.6	2057.6	2057.6	2057.6	2057.6	2057.6	2057.6	2057.6	2057.6	2057.6
2093.5	2.5°	2066.6	2073.8	2104.3	2088.1	2097.1	2059.4	2089.9	2064.8	2086.3	2075.6
2109.7	5°	2124.0	2107.9	2125.8	2113.3	2113.3	2127.6	2149.1	2133.0	2165.3	2150.9
2122.2	7.5°	2147.3	2149.1	2159.9	2161.7	2152.7	2197.6	2199.4	2194.0	2224.5	2217.3
2208.3	10°	2204.7	2206.5	2226.3	2237.0	2228.1	2244.2	2226.3	2211.9	2210.1	2202.9
2276.5	12.5°	2296.2	2314.2	2310.6	2319.6	2321.3	2253.2	2211.9	2142.0	2133.0	2142.0
2377.0	15°	2380.5	2373.4	2377.0	2394.9	2319.6	2210.1	2136.6	2077.4	2081.0	2082.8
2507.9	17.5°	2481.0	2486.4	2491.8	2409.3	2271.1	2142.0	2077.4	2077.4	2059.4	2066.6
2599.4	20°	2595.8	2574.3	2527.6	2411.0	2186.8	2063.0	2043.3	2043.3	2021.8	2007.4
2698.1	22.5°	2685.5	2642.5	2572.5	2355.4	2111.5	2032.5	1984.1	1950.0	1924.9	1896.2
2807.5	25°	2742.9	2719.6	2583.3	2298.0	2055.8	1951.8	1880.0	1828.0	1795.7	1758.1
2893.6	27.5°	2830.8	2786.0	2613.8	2231.7	1994.9	1871.1	1759.8	1679.1	1618.1	1578.7
3024.6	30°	2949.2	2884.6	2592.2	2136.6	1901.6	1731.1	1600.2	1496.1	1426.2	1393.9
3148.4	32.5°	3046.1	2961.8	2574.3	2050.5	1797.5	1589.4	1415.4	1309.6	1270.1	1228.8
3356.4	35°	3230.9	3064.0	2561.7	2002.0	1704.2	1447.7	1264.7	1173.2	1123.0	1062.0
3480.2	37.5°	3372.6	3241.6	2531.2	1901.6	1584.0	1309.6	1149.9	1067.4	992.0	927.5
3767.3	40°	3595.0	3489.2	2533.0	1759.8	1442.3	1191.2	1060.2	974.1	879.0	823.4
4192.4	42.5°	4013.0	3733.2	2543.8	1646.8	1282.7	1094.3	979.5	877.2	782.2	735.5
4676.8	45°	4526.1	4068.6	2477.4	1544.6	1119.4	1002.8	882.6	780.4	719.4	685.3
5335.2	47.5°	5116.3	4396.9	2387.7	1352.6	983.1	905.9	792.9	733.7	688.9	669.1
6183.7	50°	5776.5	4866.9	2362.6	1176.8	877.2	823.4	749.9	705.0	674.5	651.2
7139.8	52.5°	6626.8	5414.1	2312.4	995.6	785.7	757.0	733.7	703.2	676.3	656.6
8031.4	55°	7439.4	6020.4	2258.6	846.7	721.2	724.7	737.3	710.4	687.1	656.6
9030.7	57.5°	8354.3	6639.3	2059.4	737.3	672.7	708.6	733.7	703.2	679.9	656.6
10053.2	60°	8919.4	6987.4	1670.2	642.2	629.7	678.1	712.2	679.9	654.8	663.8
10523.2	62.5°	9149.1	6804.4	1259.3	583.0	599.2	636.8	678.1	665.5	647.6	681.7
10517.8	65°	8758.0	6382.8	900.6	532.8	557.9	595.6	647.6	662.0	667.3	733.7
9660.3	67.5°	7792.8	5557.6	662.0	491.5	514.9	570.5	669.1	692.5	688.9	771.4
8106.8	70°	6235.7	4346.7	516.7	457.5	498.7	590.2	699.6	699.6	674.5	771.4
6183.7	72.5°	4536.9	3064.0	444.9	418.0	457.5	541.8	696.0	694.3	662.0	705.0
3937.7	75°	2746.5	1783.2	392.9	378.5	392.9	464.6	665.5	654.8	609.9	606.3
1894.4	77.5°	1368.8	897.0	321.1	335.5	342.6	389.3	584.8	601.0	540.0	525.6
748.1	80°	577.6	391.1	267.3	288.8	288.8	328.3	486.2	496.9	448.5	421.6
296.0	82.5°	263.7	224.2	227.8	251.2	235.0	254.7	385.7	398.3	364.2	319.3
125.6	85°	111.2	127.4	174.0	197.3	174.0	165.0	265.5	279.9	236.8	197.3
53.8	87.5°	50.2	70.0	109.4	143.5	87.9	77.1	141.7	147.1	118.4	87.9
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>
2057.6
2055.8
2131.2
2206.5
2202.9
2145.5
2107.9
2068.4
1985.9
1880.0
1765.2
1596.6
1411.8
1227.0
1056.6
929.3
828.8
739.1
692.5
665.5
654.8
654.8
654.8
654.8
656.6
672.7
733.7
776.8
755.2
679.9
599.2
516.7
412.6
312.1
199.1
82.5
0.0

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