

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: P477755

Luminaire Tested: **IFLD-L-SA7D-735-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477755
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-735-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

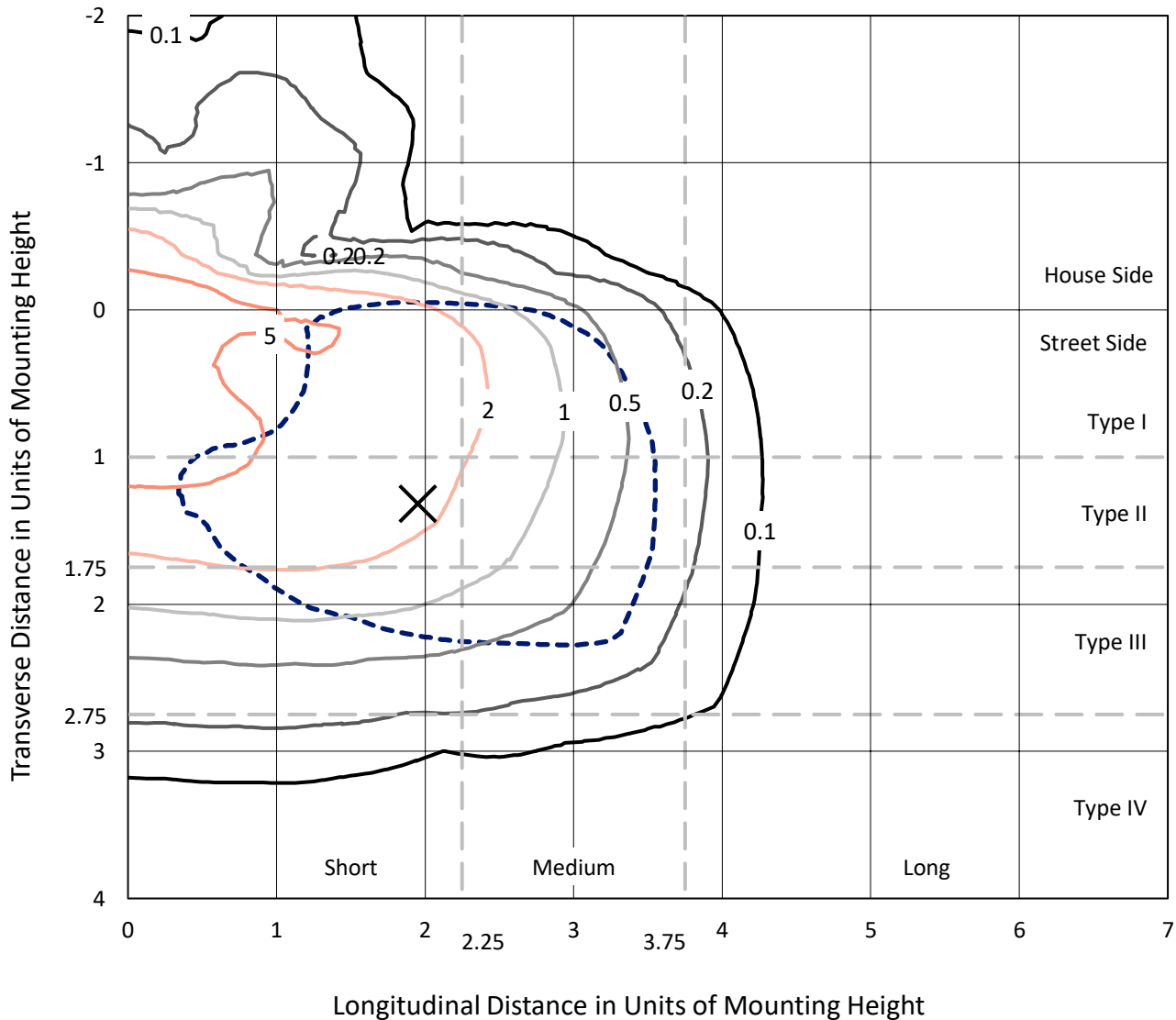
Lumens per Lamp: N/A
Luminaire Lumens: 47259.1 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 422.6
Input Voltage (V): 120
Input Current (Ain): 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

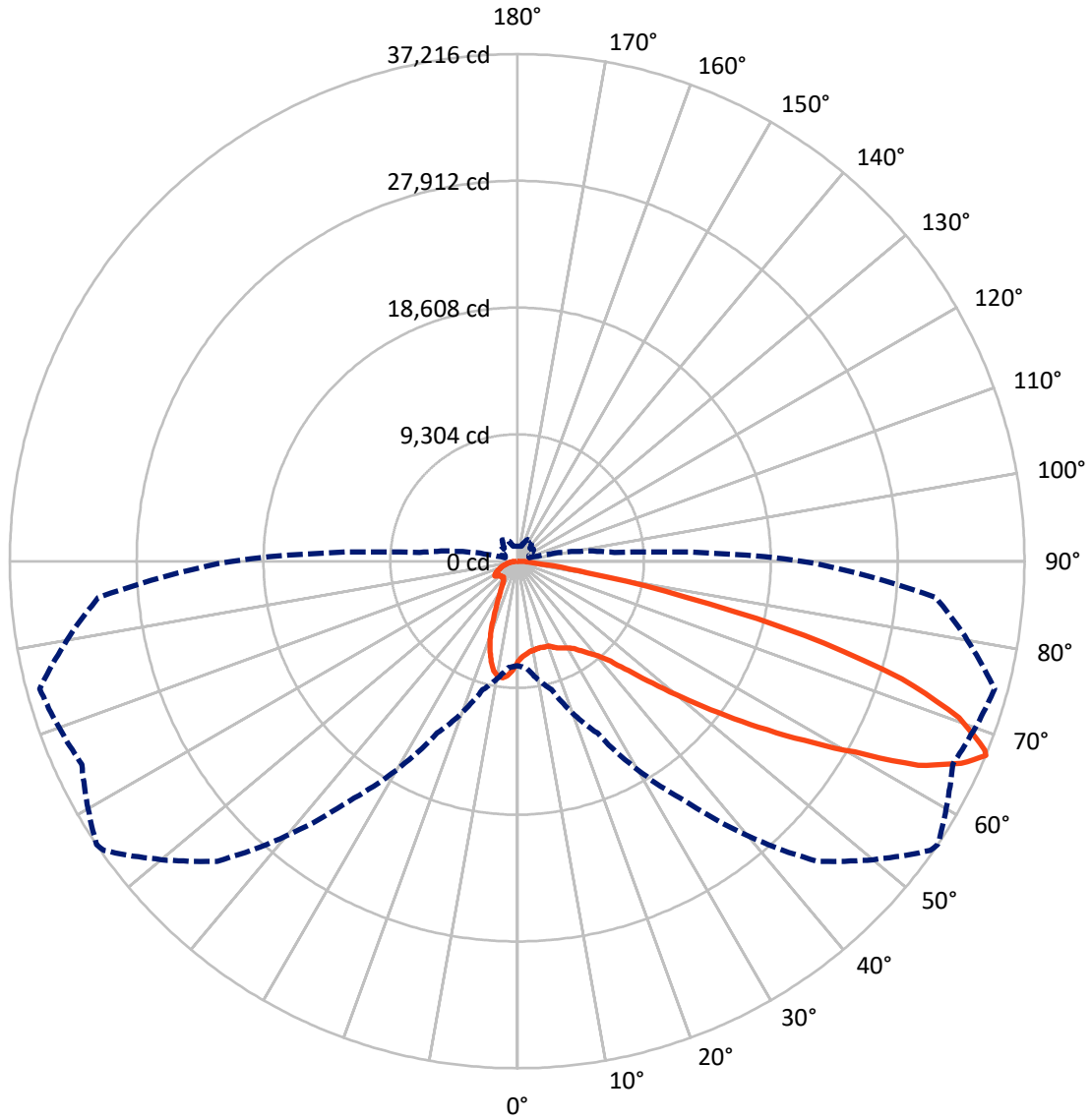
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.1 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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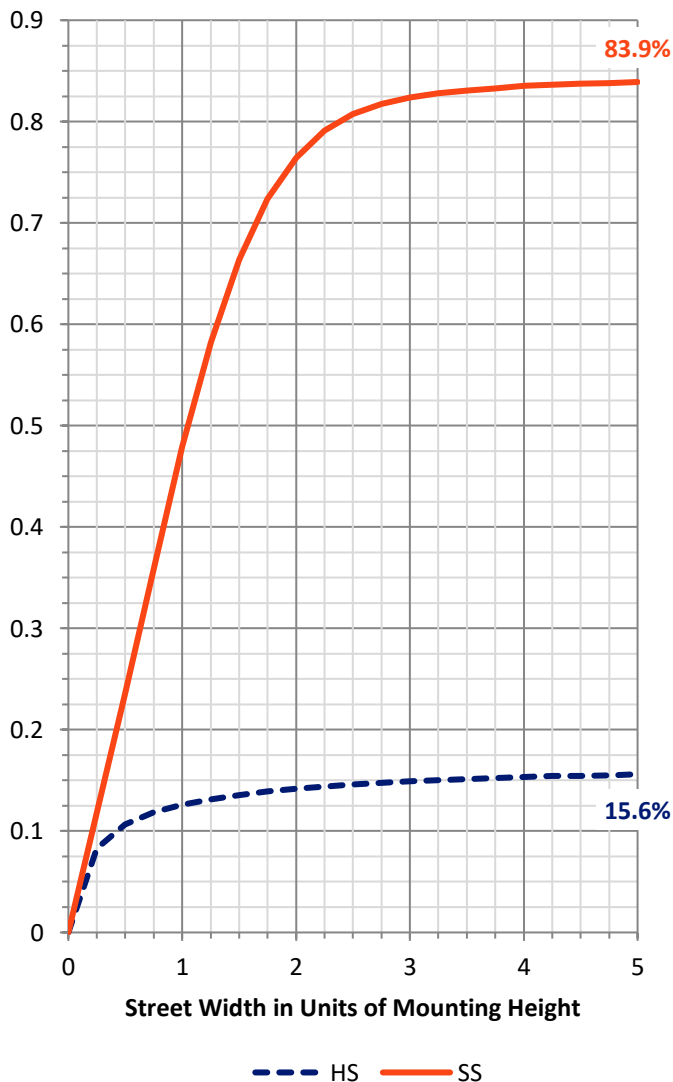
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7481.6	0.0	7481.6
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	39777.5	0.0	39777.5
	% Fixture	84.2	0.0	84.2
Total	Lumens	47259.1	0.0	47259.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	708.4	1.5
10°-20°	1932.6	4.1
20°-30°	3030.9	6.4
30°-40°	4326.7	9.2
40°-50°	6530.2	13.8
50°-60°	10395.0	22.0
60°-70°	13289.1	28.1
70°-80°	6479.3	13.7
80°-90°	566.8	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°	47259.1	100.0
0°-180°	47259.1	100.0

Coefficient of Utilization

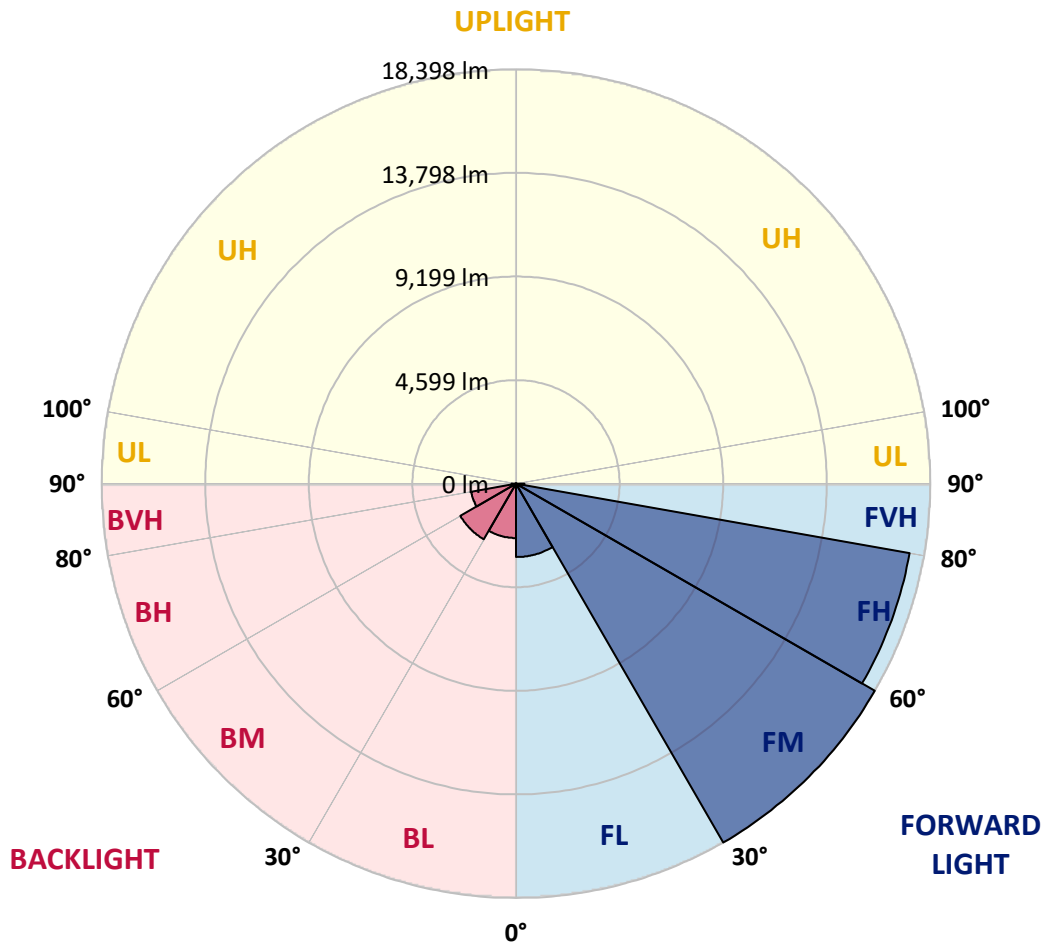


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3256.7	6.9			
FM (30°-60°)	18397.6	38.9			
FH (60°-80°)	17746.8	37.6			G5
FVH (80°-90°)	376.4	0.8			G3/500
BL (0°-30°)	2415.3	5.1	B3/2500		
BM (30°-60°)	2854.3	6.0	B3/5000		
BH (60°-80°)	2021.7	4.3	B3/2500		G3/2500
BVH (80°-90°)	190.4	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	7353.4	7353.4	7353.4	7353.4	7353.4	7353.4	7353.4	7353.4	7353.4	7353.4
2.5°	6754.9	6727.2	6760.5	6727.2	6876.8	6965.5	6993.2	7032.0	7170.5	7303.5
5°	6472.3	6350.4	6483.4	6527.7	6538.8	6688.4	6843.6	6871.3	6943.3	7159.4
7.5°	6001.3	6139.8	6090.0	6223.0	6361.5	6511.1	6766.0	6694.0	6960.0	7165.0
10°	5901.6	5912.6	5968.0	6017.9	6139.8	6333.8	6688.4	6644.1	6915.6	7353.4
12.5°	6001.3	6001.3	5984.7	5945.9	6084.4	6272.8	6555.4	6577.6	7004.3	7408.8
15°	6350.4	6416.9	6239.6	6267.3	6211.9	6272.8	6522.2	6572.1	7037.5	7453.1
17.5°	7203.8	7181.6	6971.0	6677.3	6433.5	6394.7	6566.5	6621.9	7004.3	7580.6
20°	8035.0	7990.6	7624.9	7320.1	6838.0	6610.8	6638.6	6644.1	7059.7	7663.7
22.5°	8960.4	9076.8	8677.8	8057.1	7458.7	6893.5	6782.6	6871.3	7187.1	7708.0
25°	10412.2	10162.9	9819.3	9004.7	8040.5	7331.2	7020.9	7065.2	7309.1	7818.9
27.5°	11459.5	11359.8	10822.3	10162.9	8855.1	7674.8	7148.4	7231.5	7530.7	7813.3
30°	12468.1	12468.1	12141.1	11154.8	9714.0	8251.1	7419.9	7381.1	7425.4	7802.2
32.5°	13648.4	13487.7	13016.7	12362.8	10794.6	8777.5	7636.0	7647.1	7647.1	8007.3
35°	14269.0	14529.5	14213.6	13149.7	11620.2	9653.1	8156.9	8073.8	8012.8	8234.5
37.5°	15177.8	15333.0	15000.5	14374.3	12645.4	10362.3	8616.8	8550.3	8195.7	8411.8
40°	15726.4	15698.7	15687.6	15399.4	14003.0	11199.1	9292.9	9121.1	8644.5	9038.0
42.5°	16036.7	15981.3	16662.9	16485.6	15283.1	12429.3	10140.7	10046.5	9520.1	10151.8
45°	16385.8	16795.9	17355.5	17854.3	16773.7	14158.2	11575.9	11442.9	10971.9	11775.4
47.5°	16690.6	17194.8	17909.7	18441.7	18120.3	16036.7	13349.1	13382.4	13072.1	13897.7
50°	17200.4	17250.3	18220.0	19295.0	19544.4	17771.2	15731.9	15676.5	15538.0	16696.1
52.5°	17045.2	17194.8	18419.5	19793.7	20203.8	19605.3	18292.0	18458.3	18275.4	19732.8
55°	14518.4	14967.2	18297.6	20320.2	21766.5	21677.8	21583.6	21472.8	21461.7	23146.3
57.5°	13371.3	13737.0	16119.8	20902.0	23440.0	24093.8	24703.4	24825.3	24819.8	26853.4
60°	12617.7	12994.5	15238.7	20586.2	24864.1	27258.0	28427.2	28443.8	28410.6	30815.5
62.5°	11143.7	11509.4	13714.9	18857.3	25257.5	30178.3	32782.7	32998.8	31474.9	34229.0
65°	9370.4	9669.7	11614.7	16214.0	24210.2	32034.6	36057.6	35802.7	34057.2	36179.6
67°	7663.7	7863.2	9758.3	13919.9	21472.8	31142.5	37005.2	37215.8	35248.6	36262.7
67.5°	7176.1	7358.9	9148.8	13138.6	20431.0	30466.4	37038.5	37005.2	35270.8	36279.3
70°	4981.7	5059.3	6234.0	9038.0	15050.3	25739.6	34334.3	34411.9	33791.2	34312.1
72.5°	3302.7	3419.0	4167.1	5696.5	8871.7	18729.8	28698.7	29529.9	29136.5	28133.5
75°	2127.9	2194.4	2726.4	3391.3	4366.6	10667.1	21201.3	21755.4	20852.1	17399.9
77.5°	1191.4	1263.4	1645.8	2061.4	2127.9	4438.6	11908.4	12595.5	10672.7	7392.2
80°	742.5	836.7	1241.3	1224.6	1014.1	1629.2	4909.6	5258.8	4266.8	2543.5
82.5°	559.7	631.7	958.7	858.9	570.8	725.9	1839.7	1972.7	1562.7	980.8
85°	382.4	482.1	692.7	532.0	299.2	349.1	731.5	786.9	714.8	476.6
87.5°	138.5	205.0	360.2	266.0	133.0	105.3	238.3	266.0	254.9	216.1
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°
7353.4	0°	7353.4	7353.4	7353.4	7353.4	7353.4	7353.4	7353.4	7353.4	7353.4	7353.4
7419.9	2.5°	7525.2	7602.7	7641.5	7868.7	7962.9	7946.3	7968.5	8001.7	8035.0	8079.3
7514.1	5°	7586.1	7824.4	7951.9	8217.8	8395.2	8317.6	8417.3	8389.6	8350.8	8345.3
7685.9	7.5°	7785.6	8090.4	8472.7	8544.8	8622.4	8428.4	8262.2	8035.0	7979.6	7785.6
7829.9	10°	8140.3	8389.6	8855.1	8882.8	8539.2	8040.5	7669.2	7198.2	7192.7	6910.1
8051.6	12.5°	8478.3	8760.9	9137.7	8977.0	8156.9	7475.3	6871.3	6355.9	6139.8	5995.8
8184.6	15°	8688.9	9154.3	9353.8	8661.2	7486.4	6566.5	5785.2	5231.0	5009.4	4904.1
8350.8	17.5°	8882.8	9531.1	9442.5	8107.0	6660.7	5630.0	4699.1	4217.0	4156.0	4078.4
8616.8	20°	9148.8	9669.7	9126.6	7386.6	5724.2	4422.0	3829.1	3596.3	3651.8	3685.0
8644.5	22.5°	9398.2	9741.7	8727.6	6599.8	4521.8	3502.1	3208.4	3258.3	3341.4	3452.3
8711.0	25°	9509.0	9858.1	8190.1	5513.7	3441.2	2948.0	2881.5	2964.6	3103.2	3108.7
8805.2	27.5°	9581.0	9775.0	7541.8	4455.3	2720.8	2576.7	2676.5	2737.4	2754.1	2820.6
9004.7	30°	9708.5	9603.2	6721.7	3186.3	2283.0	2288.6	2416.0	2416.0	2416.0	2465.9
9204.2	32.5°	9930.1	9486.8	5763.0	2327.4	1967.2	2144.5	2111.3	2100.2	2078.0	2017.1
9459.1	35°	10068.7	9171.0	4549.5	1723.4	1767.7	1967.2	1956.1	1784.3	1496.2	1352.1
10107.4	37.5°	10356.8	9010.3	3347.0	1329.9	1651.3	1878.5	1817.6	1402.0	1086.1	947.6
10910.9	40°	10977.4	8905.0	2316.3	1163.7	1573.7	1834.2	1623.6	1196.9	831.2	587.4
12152.2	42.5°	11736.6	8910.5	1573.7	1097.2	1579.3	1928.4	1562.7	1025.2	587.4	471.0
13809.1	45°	12756.2	8827.4	1080.6	1097.2	1679.0	2083.6	1601.5	930.9	570.8	598.5
15887.1	47.5°	13853.4	8899.4	803.5	997.4	1695.7	2089.1	1462.9	914.3	548.6	692.7
18148.0	50°	15133.5	8971.5	665.0	919.9	1701.2	2022.6	1346.6	892.2	570.8	731.5
20741.3	52.5°	16452.3	9198.7	565.2	870.0	1767.7	1994.9	1346.6	925.4	570.8	637.3
24044.0	55°	18419.5	9780.5	814.6	1086.1	2011.5	2177.8	1656.9	1296.7	798.0	820.1
27208.1	57.5°	20591.7	10379.0	908.8	1141.5	2066.9	1961.6	1784.3	1429.7	842.3	847.8
29668.5	60°	22021.4	10401.1	903.2	1113.8	1933.9	1695.7	1745.5	1507.3	858.9	725.9
31192.3	62.5°	22592.1	9725.1	942.0	1113.8	1800.9	1584.8	1789.9	1623.6	886.6	908.8
31624.6	65°	21943.8	8328.7	908.8	997.4	1584.8	1418.6	1800.9	1645.8	969.7	914.3
30848.8	67°	20929.7	7176.1	925.4	947.6	1474.0	1346.6	1895.1	1728.9	1124.9	1097.2
30444.2	67.5°	20641.6	6871.3	919.9	919.9	1435.2	1324.4	1917.3	1728.9	1147.1	1136.0
26870.1	70°	18192.3	5569.1	942.0	908.8	1269.0	1257.9	2039.2	1823.1	1318.8	1329.9
19738.3	72.5°	13847.9	4222.5	936.5	908.8	1102.7	1202.5	2055.8	1884.1	1435.2	1329.9
11055.0	75°	7868.7	2526.9	825.7	792.4	870.0	1047.3	1922.9	1795.4	1396.4	1191.4
4416.5	77.5°	3252.8	1302.2	759.2	714.8	720.4	853.4	1601.5	1673.5	1329.9	1014.1
1474.0	80°	1213.6	781.3	609.5	570.8	554.1	626.2	1141.5	1335.5	1136.0	831.2
648.3	82.5°	631.7	487.6	415.6	415.6	376.8	399.0	615.1	886.6	858.9	570.8
260.4	85°	321.4	277.1	238.3	232.7	210.6	188.4	310.3	526.4	493.2	315.9
116.4	87.5°	171.8	155.2	99.7	94.2	77.6	49.9	55.4	105.3	171.8	138.5
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°
7353.4
8123.6
8395.2
7852.1
6899.0
5962.5
4881.9
4117.2
3646.2
3391.3
3164.1
2881.5
2521.3
1983.8
1418.6
942.0
570.8
459.9
609.5
770.2
847.8
653.9
864.5
820.1
748.1
919.9
897.7
1080.6
1113.8
1230.2
1180.3
1063.9
958.7
759.2
448.9
260.4
99.7
0.0

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