

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: P477950

Luminaire Tested: **IFLD-L-SA7D-830-U-T3R**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P477950  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7D-830-U-T3R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens  
Light Source: (112) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

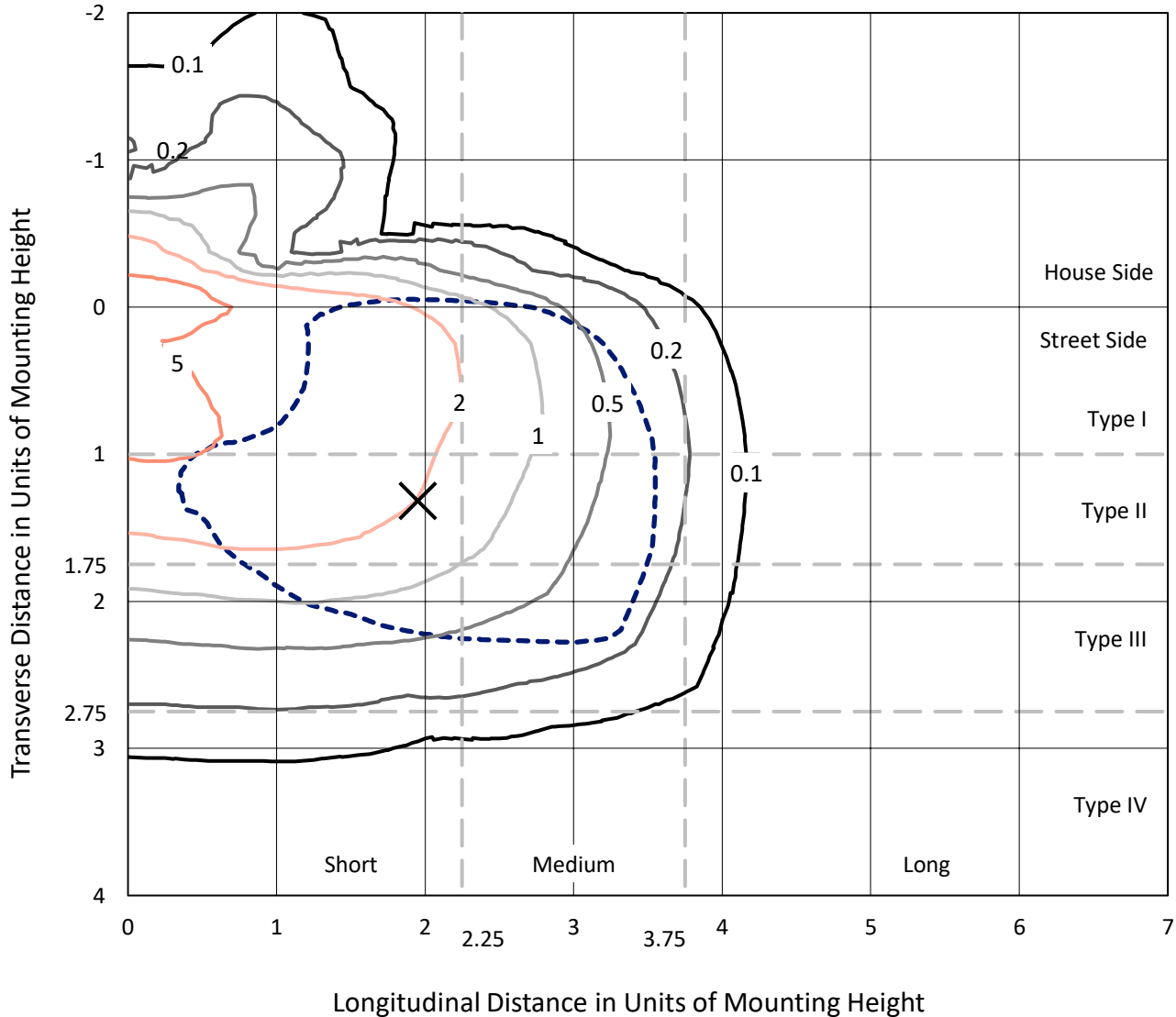
Lumens per Lamp: N/A  
Luminaire Lumens: 38073.7 lumens  
Efficiency: N/A  
Efficacy: 90.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

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

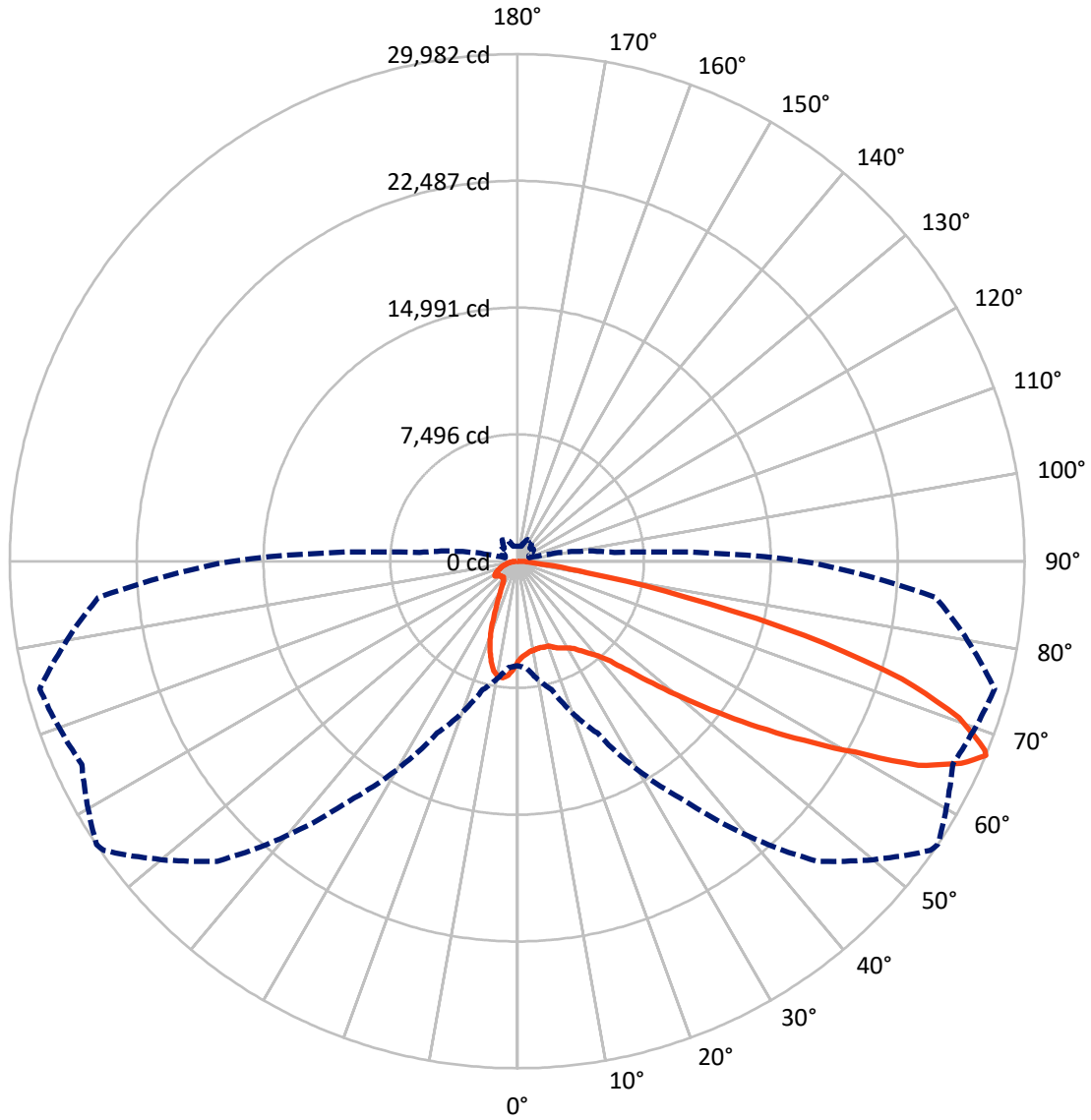
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.3 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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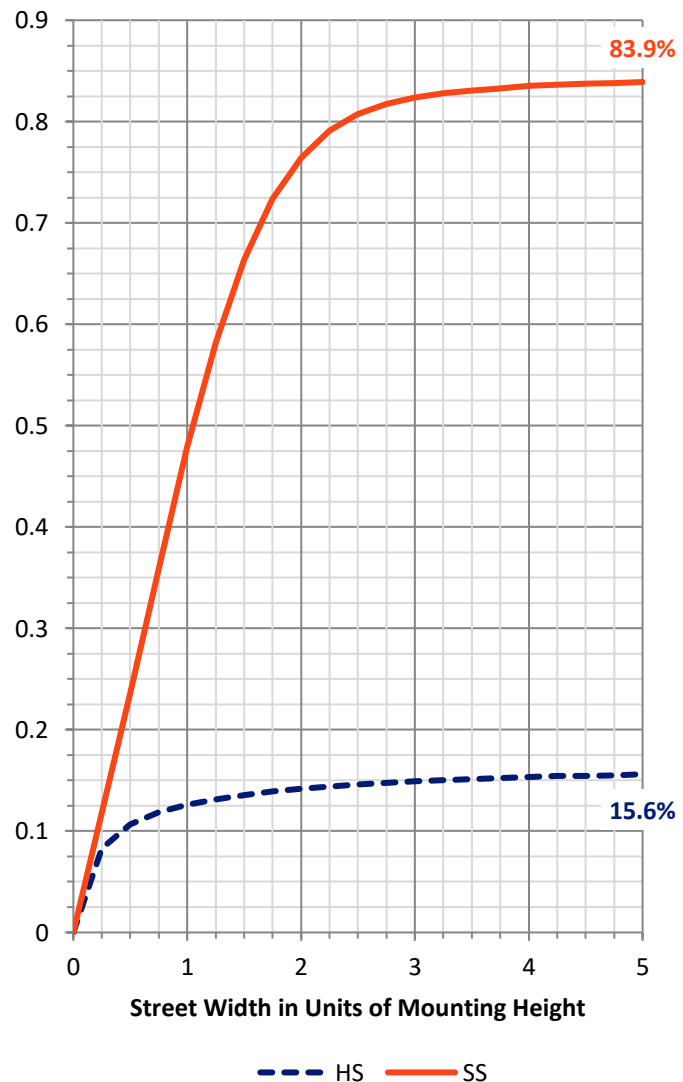
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6027.5	0.0	6027.5
	% Fixture	15.8	0.0	15.8
<b>Street Side</b>	Lumens	32046.2	0.0	32046.2
	% Fixture	84.2	0.0	84.2
<b>Total</b>	Lumens	38073.7	0.0	38073.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	570.7	1.5
10°-20°	1557.0	4.1
20°-30°	2441.8	6.4
30°-40°	3485.7	9.2
40°-50°	5261.0	13.8
50°-60°	8374.6	22.0
60°-70°	10706.2	28.1
70°-80°	5220.0	13.7
80°-90°	456.6	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°	38073.7	100.0
0°-180°	38073.7	100.0

**Coefficient of Utilization**

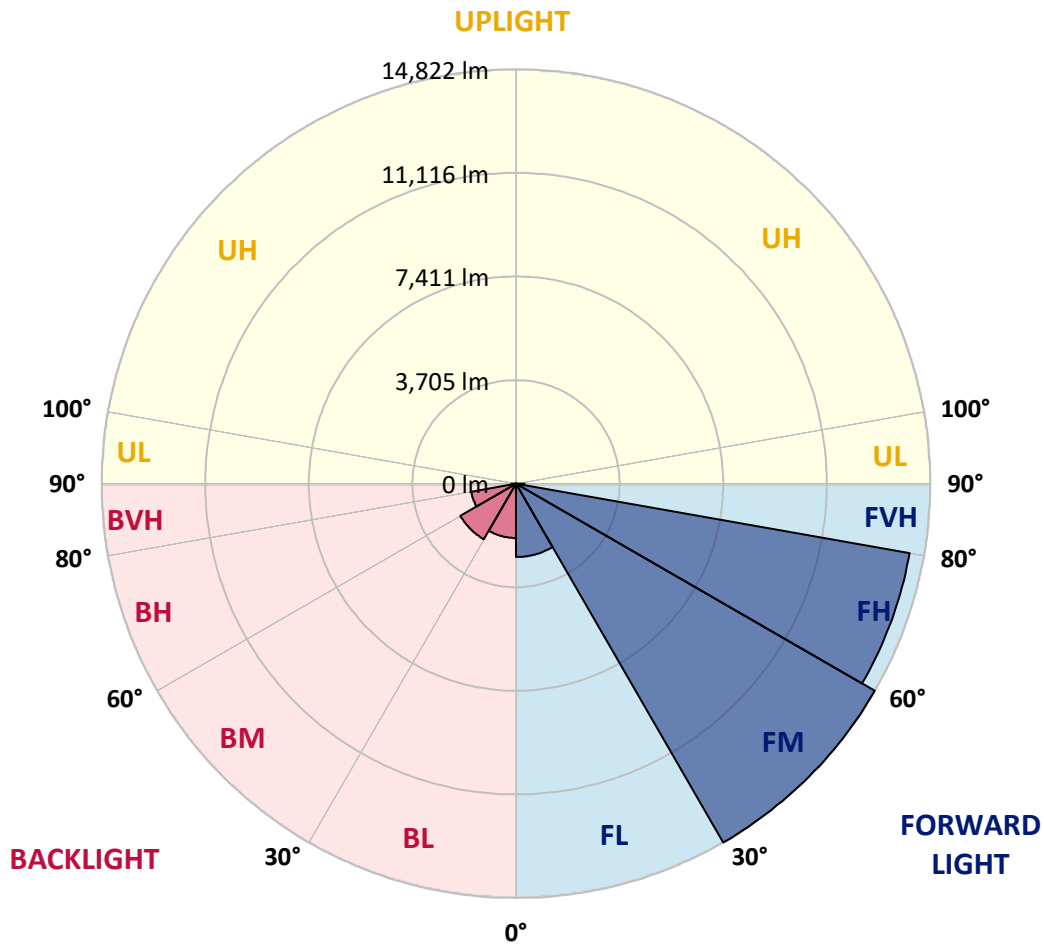


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2623.7	6.9			
FM (30°-60°)	14821.8	38.9			
FH (60°-80°)	14297.5	37.6			G5
FVH (80°-90°)	303.3	0.8			G3/500
BL (0°-30°)	1945.8	5.1	B3/2500		
BM (30°-60°)	2299.5	6.0	B2/2500		
BH (60°-80°)	1628.7	4.3	B3/2500		G3/2500
BVH (80°-90°)	153.4	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°	5924.2	5924.2	5924.2	5924.2	5924.2	5924.2	5924.2	5924.2	5924.2	5924.2
2.5°	5442.0	5419.7	5446.5	5419.7	5540.2	5611.7	5634.0	5665.2	5776.8	5884.0
5°	5214.3	5116.1	5223.3	5259.0	5267.9	5388.4	5513.4	5535.8	5593.8	5767.9
7.5°	4834.9	4946.5	4906.3	5013.4	5125.0	5245.6	5450.9	5392.9	5607.2	5772.4
10°	4754.5	4763.4	4808.1	4848.3	4946.5	5102.7	5388.4	5352.7	5571.5	5924.2
12.5°	4834.9	4834.9	4821.5	4790.2	4901.8	5053.6	5281.3	5299.2	5642.9	5968.8
15°	5116.1	5169.7	5026.8	5049.2	5004.5	5053.6	5254.5	5294.7	5669.7	6004.5
17.5°	5803.6	5785.8	5616.1	5379.5	5183.1	5151.8	5290.2	5334.9	5642.9	6107.2
20°	6473.3	6437.6	6142.9	5897.4	5509.0	5325.9	5348.3	5352.7	5687.6	6174.2
22.5°	7218.8	7312.6	6991.1	6491.1	6009.0	5553.6	5464.3	5535.8	5790.2	6209.9
25°	8388.5	8187.6	7910.8	7254.5	6477.7	5906.3	5656.3	5692.0	5888.4	6299.2
27.5°	9232.2	9151.9	8718.8	8187.6	7134.0	6183.1	5759.0	5825.9	6067.0	6294.7
30°	10044.7	10044.7	9781.3	8986.7	7826.0	6647.4	5977.7	5946.5	5982.2	6285.8
32.5°	10995.6	10866.2	10486.7	9959.9	8696.5	7071.5	6151.8	6160.8	6160.8	6451.0
35°	11495.6	11705.5	11451.0	10593.9	9361.7	7776.9	6571.5	6504.5	6455.4	6634.0
37.5°	12227.8	12352.8	12084.9	11580.5	10187.6	8348.3	6942.0	6888.5	6602.7	6776.9
40°	12669.8	12647.4	12638.5	12406.4	11281.4	9022.4	7486.7	7348.3	6964.4	7281.3
42.5°	12919.8	12875.1	13424.2	13281.4	12312.6	10013.5	8169.7	8093.8	7669.7	8178.6
45°	13201.0	13531.4	13982.3	14384.1	13513.5	11406.4	9326.0	9218.8	8839.4	9486.7
47.5°	13446.6	13852.8	14428.7	14857.3	14598.4	12919.8	10754.6	10781.4	10531.4	11196.5
50°	13857.3	13897.5	14678.7	15544.8	15745.7	14317.1	12674.2	12629.6	12518.0	13451.0
52.5°	13732.3	13852.8	14839.4	15946.6	16276.9	15794.8	14736.7	14870.7	14723.4	15897.5
55°	11696.5	12058.2	14741.2	16370.7	17535.9	17464.5	17388.6	17299.3	17290.3	18647.5
57.5°	10772.4	11067.1	12986.7	16839.4	18884.1	19410.9	19902.0	20000.2	19995.7	21634.1
60°	10165.3	10468.8	12276.9	16585.0	20031.4	21960.0	22902.0	22915.4	22888.6	24826.1
62.5°	8977.8	9272.4	11049.2	15192.1	20348.4	24312.7	26411.0	26585.1	25357.4	27576.2
65°	7549.2	7790.3	9357.2	13062.6	19504.7	25808.3	29049.4	28844.0	27437.8	29147.6
67°	6174.2	6334.9	7861.7	11214.4	17299.3	25089.5	29812.8	29982.4	28397.6	29214.6
67.5°	5781.3	5928.6	7370.6	10584.9	16460.0	24544.9	29839.6	29812.8	28415.4	29228.0
70°	4013.4	4075.9	5022.4	7281.3	12125.1	20736.8	27661.0	27723.5	27223.5	27643.1
72.5°	2660.7	2754.5	3357.2	4589.3	7147.4	15089.4	23120.8	23790.4	23473.4	22665.4
75°	1714.3	1767.9	2196.4	2732.2	3517.9	8593.8	17080.5	17527.0	16799.3	14018.0
77.5°	959.8	1017.9	1325.9	1660.7	1714.3	3575.9	9593.8	10147.4	8598.3	5955.4
80°	598.2	674.1	1000.0	986.6	817.0	1312.5	3955.4	4236.6	3437.5	2049.1
82.5°	450.9	508.9	772.3	692.0	459.8	584.8	1482.2	1589.3	1258.9	790.2
85°	308.0	388.4	558.0	428.6	241.1	281.3	589.3	633.9	575.9	383.9
87.5°	111.6	165.2	290.2	214.3	107.1	84.8	192.0	214.3	205.4	174.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P477950  
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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5924.2	0°	5924.2	5924.2	5924.2	5924.2	5924.2	5924.2	5924.2	5924.2	5924.2	5924.2
5977.7	2.5°	6062.6	6125.1	6156.3	6339.3	6415.2	6401.8	6419.7	6446.5	6473.3	6509.0
6053.6	5°	6111.7	6303.6	6406.3	6620.6	6763.5	6701.0	6781.3	6759.0	6727.7	6723.3
6192.0	7.5°	6272.4	6517.9	6826.0	6884.0	6946.5	6790.2	6656.3	6473.3	6428.6	6272.4
6308.1	10°	6558.1	6759.0	7134.0	7156.3	6879.5	6477.7	6178.6	5799.2	5794.7	5567.0
6486.7	12.5°	6830.4	7058.1	7361.7	7232.2	6571.5	6022.4	5535.8	5120.6	4946.5	4830.4
6593.8	15°	7000.1	7375.1	7535.8	6977.7	6031.3	5290.2	4660.8	4214.3	4035.8	3950.9
6727.7	17.5°	7156.3	7678.6	7607.2	6531.3	5366.1	4535.8	3785.8	3397.4	3348.2	3285.7
6942.0	20°	7370.6	7790.3	7352.7	5950.9	4611.7	3562.5	3084.9	2897.3	2942.0	2968.8
6964.4	22.5°	7571.5	7848.3	7031.3	5317.0	3642.9	2821.5	2584.8	2625.0	2692.0	2781.3
7017.9	25°	7660.8	7942.0	6598.3	4442.0	2772.3	2375.0	2321.5	2388.4	2500.0	2504.5
7093.8	27.5°	7718.8	7875.1	6076.0	3589.3	2192.0	2075.9	2156.3	2205.4	2218.8	2272.3
7254.5	30°	7821.5	7736.7	5415.2	2567.0	1839.3	1843.8	1946.4	1946.4	1946.4	1986.6
7415.2	32.5°	8000.1	7642.9	4642.9	1875.0	1584.8	1727.7	1700.9	1692.0	1674.1	1625.0
7620.6	35°	8111.7	7388.5	3665.2	1388.4	1424.1	1584.8	1575.9	1437.5	1205.4	1089.3
8142.9	37.5°	8343.8	7259.0	2696.5	1071.4	1330.4	1513.4	1464.3	1129.5	875.0	763.4
8790.3	40°	8843.8	7174.2	1866.1	937.5	1267.9	1477.7	1308.0	964.3	669.6	473.2
9790.3	42.5°	9455.4	7178.6	1267.9	883.9	1272.3	1553.6	1258.9	825.9	473.2	379.5
11125.1	45°	10276.9	7111.7	870.5	883.9	1352.7	1678.6	1290.2	750.0	459.8	482.1
12799.2	47.5°	11160.8	7169.7	647.3	803.6	1366.1	1683.1	1178.6	736.6	442.0	558.0
14620.7	50°	12192.1	7227.7	535.7	741.1	1370.5	1629.5	1084.8	718.8	459.8	589.3
16710.0	52.5°	13254.6	7410.8	455.4	700.9	1424.1	1607.2	1084.8	745.5	459.8	513.4
19370.7	55°	14839.4	7879.5	656.3	875.0	1620.6	1754.5	1334.8	1044.7	642.9	660.7
21919.9	57.5°	16589.4	8361.7	732.1	919.7	1665.2	1580.4	1437.5	1151.8	678.6	683.0
23902.0	60°	17741.2	8379.5	727.7	897.3	1558.1	1366.1	1406.3	1214.3	692.0	584.8
25129.7	62.5°	18201.1	7834.9	758.9	897.3	1450.9	1276.8	1442.0	1308.0	714.3	732.1
25477.9	65°	17678.7	6709.9	732.1	803.6	1276.8	1142.9	1450.9	1325.9	781.3	736.6
24852.9	67°	16861.8	5781.3	745.5	763.4	1187.5	1084.8	1526.8	1392.9	906.3	883.9
24527.0	67.5°	16629.6	5535.8	741.1	741.1	1156.3	1067.0	1544.7	1392.9	924.1	915.2
21647.5	70°	14656.4	4486.6	758.9	732.1	1022.3	1013.4	1642.9	1468.8	1062.5	1071.4
15901.9	72.5°	11156.4	3401.8	754.5	732.1	888.4	968.8	1656.3	1517.9	1156.3	1071.4
8906.3	75°	6339.3	2035.7	665.2	638.4	700.9	843.8	1549.1	1446.4	1125.0	959.8
3558.1	77.5°	2620.6	1049.1	611.6	575.9	580.4	687.5	1290.2	1348.2	1071.4	817.0
1187.5	80°	977.7	629.5	491.1	459.8	446.4	504.5	919.7	1075.9	915.2	669.6
522.3	82.5°	508.9	392.9	334.8	334.8	303.6	321.4	495.5	714.3	692.0	459.8
209.8	85°	258.9	223.2	192.0	187.5	169.6	151.8	250.0	424.1	397.3	254.5
93.8	87.5°	138.4	125.0	80.4	75.9	62.5	40.2	44.6	84.8	138.4	111.6
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>
5924.2
6544.7
6763.5
6326.0
5558.1
4803.6
3933.1
3317.0
2937.5
2732.2
2549.1
2321.5
2031.3
1598.2
1142.9
758.9
459.8
370.5
491.1
620.5
683.0
526.8
696.4
660.7
602.7
741.1
723.2
870.5
897.3
991.1
950.9
857.2
772.3
611.6
361.6
209.8
80.4
0.0

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