

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: P477716

Luminaire Tested: **IFLD-L-SA7D-730-U-T3R**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477716  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7D-730-U-T3R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens  
Light Source: (112) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

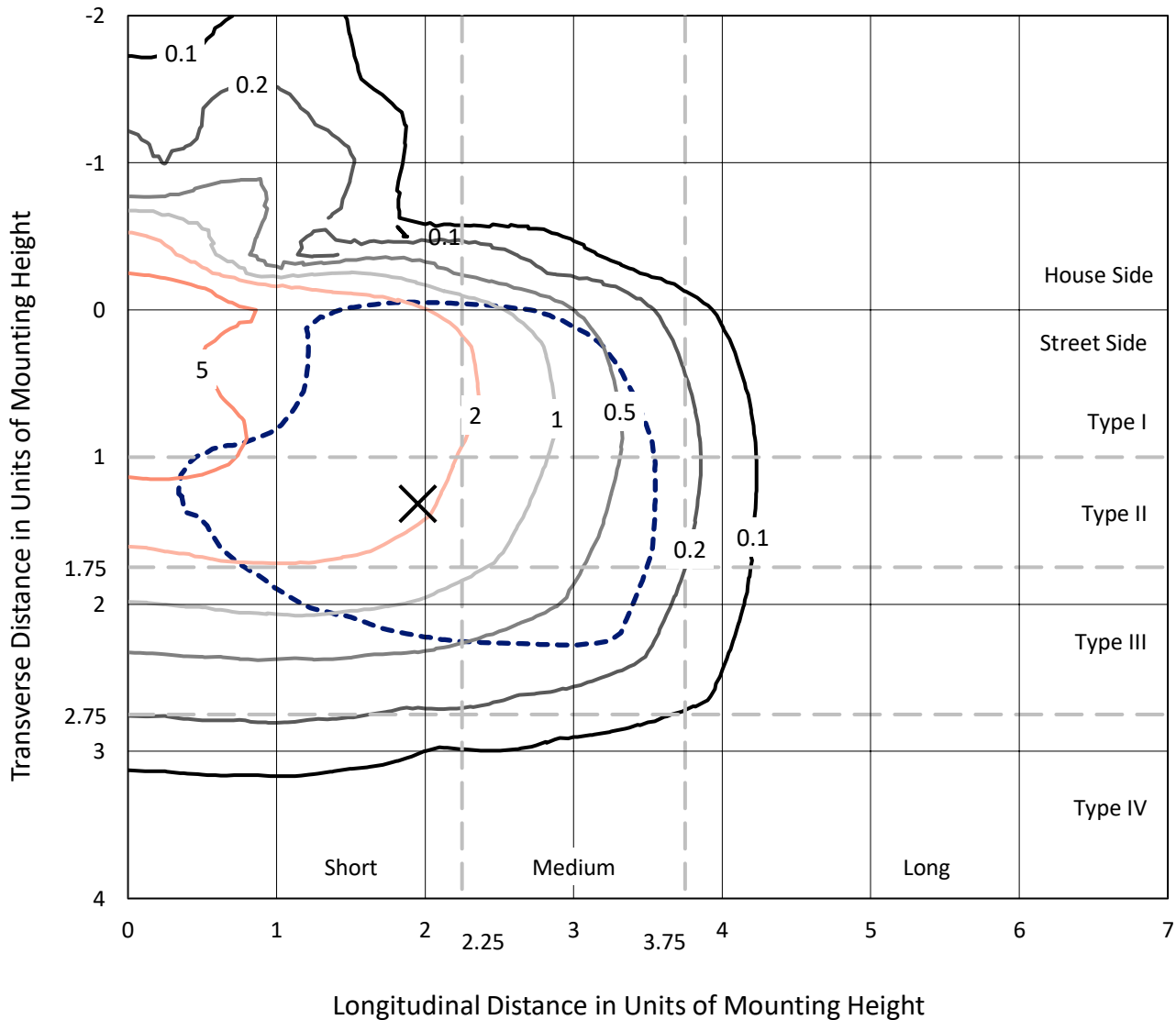
Lumens per Lamp: N/A  
Luminaire Lumens: 43631.9 lumens  
Efficiency: N/A  
Efficacy: 103.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 422.6  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

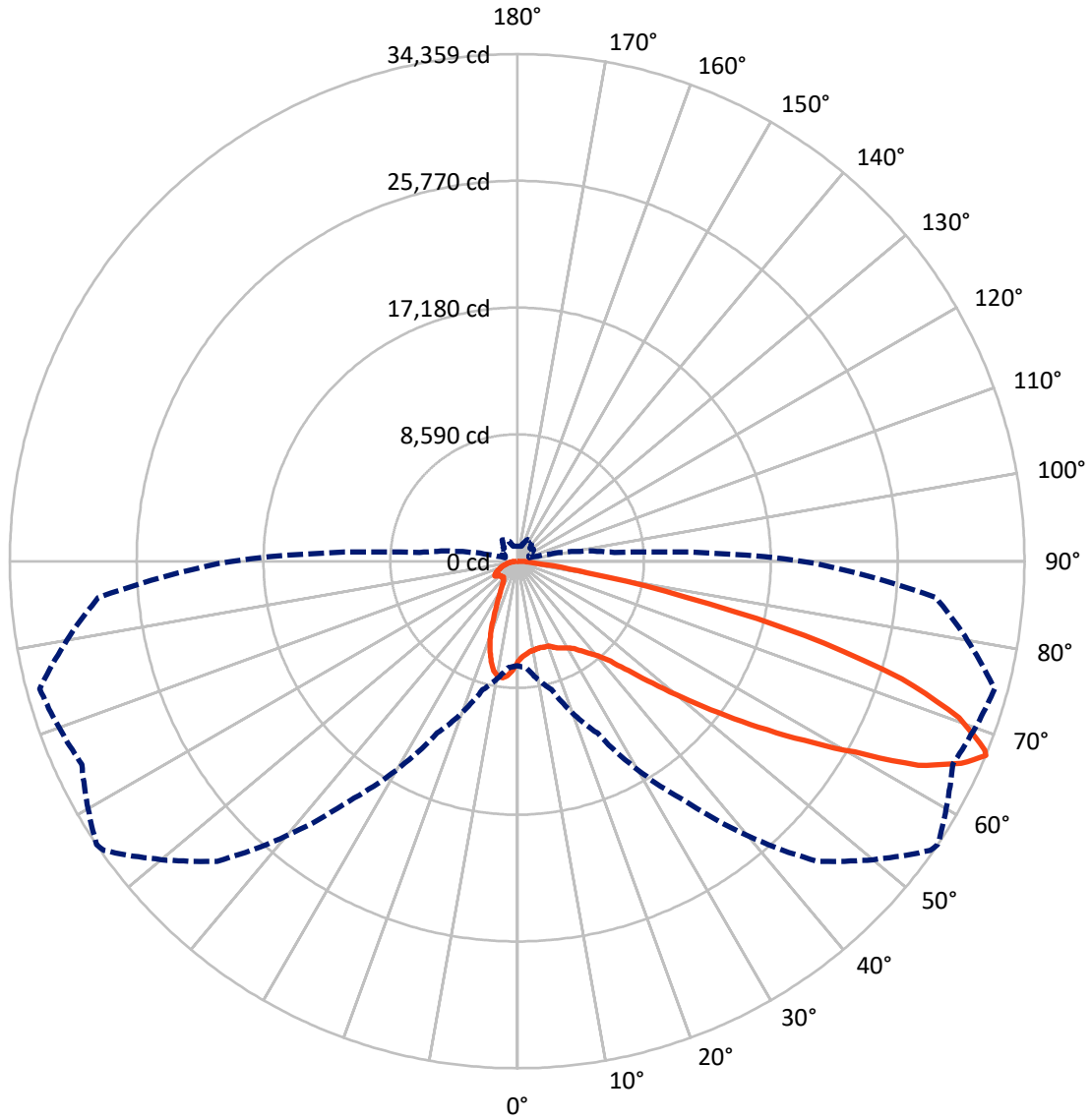
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.4 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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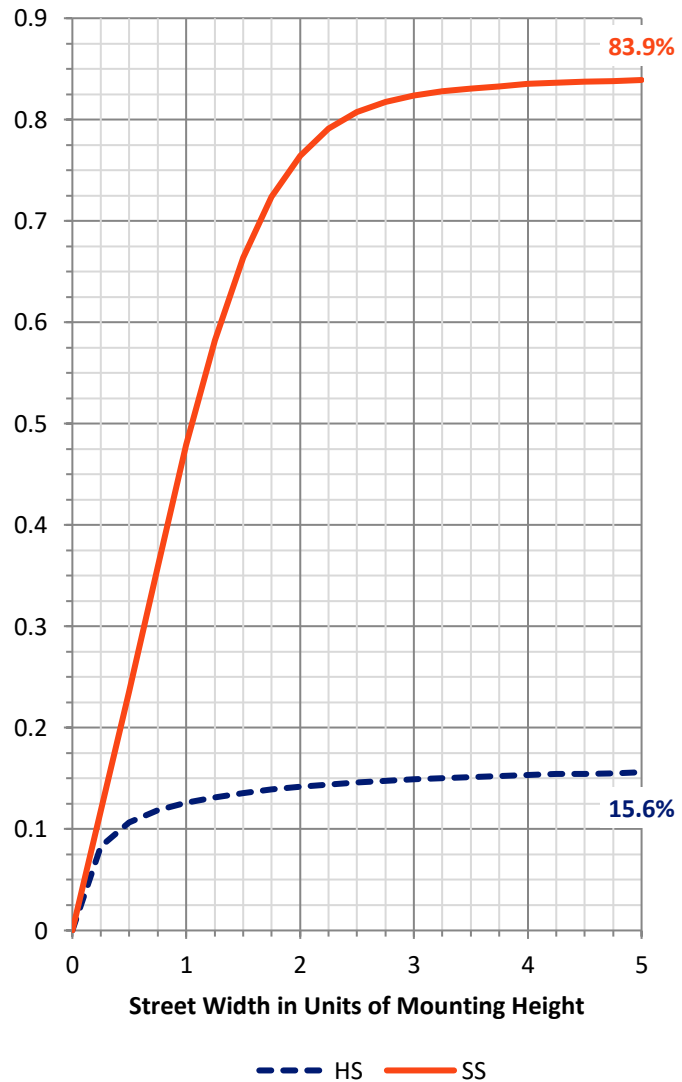
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6907.4	0.0	6907.4
	% Fixture	15.8	0.0	15.8
<b>Street Side</b>	Lumens	36724.5	0.0	36724.5
	% Fixture	84.2	0.0	84.2
<b>Total</b>	Lumens	43631.9	0.0	43631.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	654.0	1.5
10°-20°	1784.3	4.1
20°-30°	2798.3	6.4
30°-40°	3994.6	9.2
40°-50°	6029.0	13.8
50°-60°	9597.1	22.0
60°-70°	12269.2	28.1
70°-80°	5982.0	13.7
80°-90°	523.3	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°	43631.9	100.0
0°-180°	43631.9	100.0

**Coefficient of Utilization**

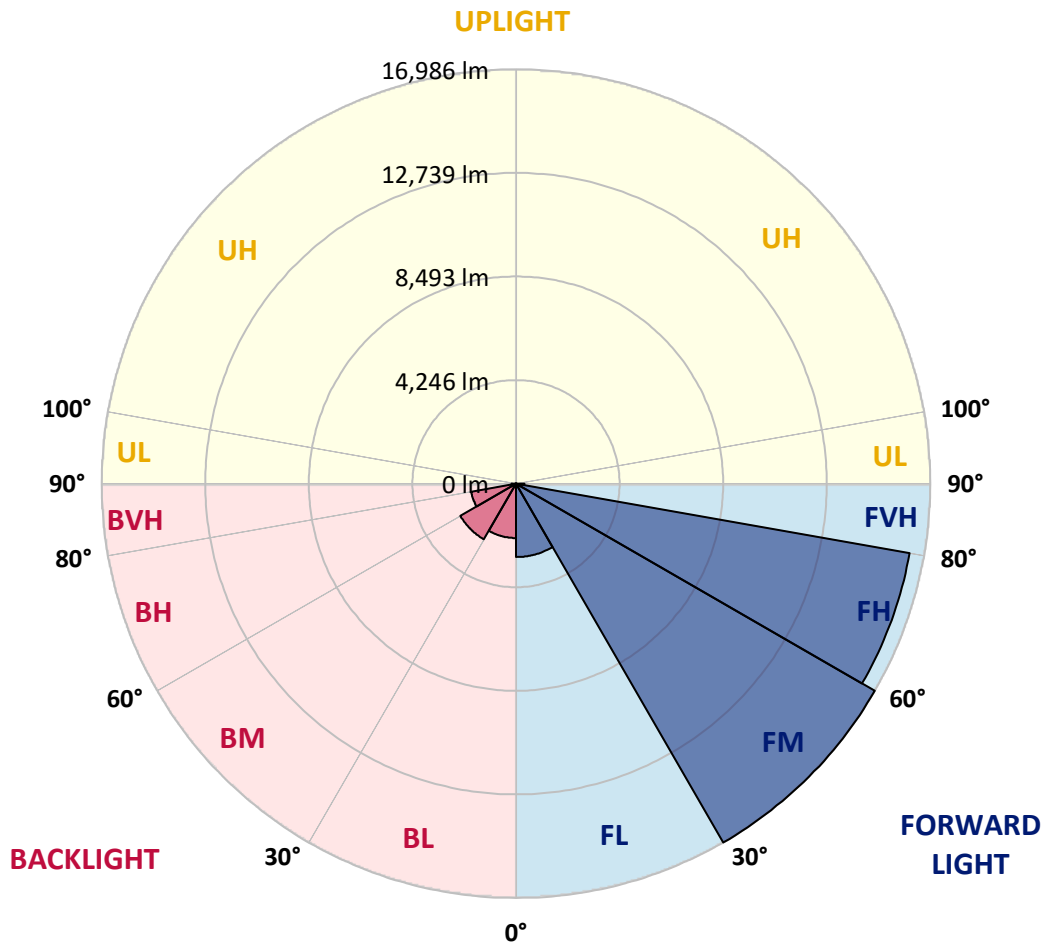


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3006.7	6.9			
FM (30°-60°)	16985.5	38.9			
FH (60°-80°)	16384.7	37.6			G5
FVH (80°-90°)	347.5	0.8			G3/500
BL (0°-30°)	2229.9	5.1	B3/2500		
BM (30°-60°)	2635.2	6.0	B3/5000		
BH (60°-80°)	1866.5	4.3	B3/2500		G3/2500
BVH (80°-90°)	175.8	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°	6789.0	6789.0	6789.0	6789.0	6789.0	6789.0	6789.0	6789.0	6789.0	6789.0
2.5°	6236.5	6210.9	6241.6	6210.9	6349.0	6430.9	6456.5	6492.3	6620.2	6743.0
5°	5975.6	5863.0	5985.8	6026.7	6036.9	6175.1	6318.3	6343.9	6410.4	6609.9
7.5°	5540.7	5668.6	5622.5	5745.3	5873.2	6011.4	6246.7	6180.2	6425.8	6615.1
10°	5448.6	5458.8	5510.0	5556.0	5668.6	5847.7	6175.1	6134.2	6384.8	6789.0
12.5°	5540.7	5540.7	5525.3	5489.5	5617.4	5791.4	6052.3	6072.8	6466.7	6840.2
15°	5863.0	5924.4	5760.7	5786.3	5735.1	5791.4	6021.6	6067.6	6497.4	6881.1
17.5°	6650.9	6630.4	6436.0	6164.8	5939.7	5903.9	6062.5	6113.7	6466.7	6998.8
20°	7418.3	7377.4	7039.7	6758.3	6313.2	6103.5	6129.0	6134.2	6517.9	7075.5
22.5°	8272.7	8380.1	8011.7	7438.7	6886.2	6364.4	6262.1	6343.9	6635.5	7116.4
25°	9613.1	9382.8	9065.6	8313.6	7423.4	6768.5	6482.0	6523.0	6748.1	7218.8
27.5°	10580.0	10487.9	9991.7	9382.8	8175.5	7085.7	6599.7	6676.5	6952.7	7213.6
30°	11511.1	11511.1	11209.3	10298.6	8968.4	7617.8	6850.4	6814.6	6855.5	7203.4
32.5°	12600.8	12452.5	12017.6	11413.9	9966.1	8103.8	7049.9	7060.2	7060.2	7392.7
35°	13173.8	13414.3	13122.7	12140.4	10728.4	8912.2	7530.8	7454.1	7397.8	7602.5
37.5°	14012.9	14156.1	13849.2	13271.0	11674.8	9567.0	7955.5	7894.1	7566.6	7766.2
40°	14519.4	14493.8	14483.6	14217.5	12928.3	10339.5	8579.6	8421.0	7981.0	8344.3
42.5°	14805.9	14754.7	15384.0	15220.3	14110.1	11475.3	9362.4	9275.4	8789.4	9372.6
45°	15128.2	15506.8	16023.5	16483.9	15486.3	13071.5	10687.4	10564.7	10129.8	10871.6
47.5°	15409.6	15875.1	16535.1	17026.2	16729.5	14805.9	12324.6	12355.3	12068.8	12831.1
50°	15880.2	15926.3	16821.6	17814.1	18044.3	16407.2	14524.5	14473.3	14345.4	15414.7
52.5°	15737.0	15875.1	17005.8	18274.5	18653.1	18100.6	16888.1	17041.6	16872.7	18218.3
55°	13404.1	13818.5	16893.2	18760.6	20095.9	20014.0	19927.0	19824.7	19814.5	21369.8
57.5°	12345.0	12682.7	14882.6	19297.8	21640.9	22244.6	22807.4	22919.9	22914.8	24792.4
60°	11649.3	11997.1	14069.2	19006.1	22955.7	25165.9	26245.4	26260.7	26230.0	28450.4
62.5°	10288.4	10626.0	12662.2	17409.9	23319.0	27862.0	30266.6	30466.1	29059.2	31601.9
65°	8651.2	8927.5	10723.3	14969.6	22352.0	29575.9	33290.2	33054.8	31443.3	33402.7
67°	7075.5	7259.7	9009.4	12851.5	19824.7	28752.2	34165.0	34359.4	32543.2	33479.5
67.5°	6625.3	6794.1	8446.6	12130.2	18862.9	28128.1	34195.7	34165.0	32563.7	33494.8
70°	4599.3	4671.0	5755.6	8344.3	13895.2	23764.1	31699.1	31770.7	31197.7	31678.6
72.5°	3049.2	3156.6	3847.3	5259.3	8190.8	17292.3	26496.0	27263.5	26900.2	25974.2
75°	1964.6	2026.0	2517.1	3131.0	4031.5	9848.4	19574.0	20085.6	19251.7	16064.4
77.5°	1100.0	1166.5	1519.5	1903.2	1964.6	4098.0	10994.4	11628.8	9853.5	6824.8
80°	685.6	772.5	1146.0	1130.6	936.2	1504.1	4532.8	4855.1	3939.4	2348.3
82.5°	516.7	583.2	885.1	793.0	527.0	670.2	1698.5	1821.3	1442.7	905.5
85°	353.0	445.1	639.5	491.1	276.3	322.3	675.3	726.5	660.0	440.0
87.5°	127.9	189.3	332.5	245.6	122.8	97.2	220.0	245.6	235.3	199.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P477716  
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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
6789.0	0°	6789.0	6789.0	6789.0	6789.0	6789.0	6789.0	6789.0	6789.0	6789.0	6789.0
6850.4	2.5°	6947.6	7019.2	7055.0	7264.8	7351.8	7336.4	7356.9	7387.6	7418.3	7459.2
6937.4	5°	7003.9	7223.9	7341.5	7587.1	7750.8	7679.2	7771.3	7745.7	7709.9	7704.8
7096.0	7.5°	7188.1	7469.4	7822.4	7889.0	7960.6	7781.5	7628.0	7418.3	7367.1	7188.1
7229.0	10°	7515.5	7745.7	8175.5	8201.0	7883.8	7423.4	7080.6	6645.8	6640.6	6379.7
7433.6	12.5°	7827.6	8088.5	8436.4	8288.0	7530.8	6901.6	6343.9	5868.1	5668.6	5535.6
7556.4	15°	8022.0	8451.7	8635.9	7996.4	6911.8	6062.5	5341.2	4829.6	4624.9	4527.7
7709.9	17.5°	8201.0	8799.6	8717.8	7484.8	6149.5	5197.9	4338.4	3893.3	3837.0	3765.4
7955.5	20°	8446.6	8927.5	8426.1	6819.7	5284.9	4082.6	3535.2	3320.3	3371.5	3402.2
7981.0	22.5°	8676.8	8994.0	8057.8	6093.2	4174.7	3233.3	2962.2	3008.2	3085.0	3187.3
8042.4	25°	8779.2	9101.5	7561.5	5090.5	3177.1	2721.7	2660.3	2737.1	2865.0	2870.1
8129.4	27.5°	8845.7	9024.7	6963.0	4113.3	2512.0	2379.0	2471.1	2527.3	2542.7	2604.1
8313.6	30°	8963.3	8866.1	6205.8	2941.7	2107.8	2112.9	2230.6	2230.6	2230.6	2276.6
8497.8	32.5°	9168.0	8758.7	5320.7	2148.7	1816.2	1979.9	1949.2	1939.0	1918.5	1862.2
8733.1	35°	9295.9	8467.1	4200.3	1591.1	1632.0	1816.2	1806.0	1647.4	1381.3	1248.3
9331.7	37.5°	9561.9	8318.7	3090.1	1227.9	1524.6	1734.3	1678.1	1294.4	1002.7	874.8
10073.5	40°	10134.9	8221.5	2138.5	1074.4	1453.0	1693.4	1499.0	1105.1	767.4	542.3
11219.5	42.5°	10835.8	8226.6	1453.0	1013.0	1458.1	1780.4	1442.7	946.5	542.3	434.9
12749.2	45°	11777.2	8149.9	997.6	1013.0	1550.2	1923.6	1478.5	859.5	527.0	552.5
14667.7	47.5°	12790.1	8216.4	741.8	920.9	1565.5	1928.8	1350.6	844.1	506.5	639.5
16755.1	50°	13971.9	8282.9	613.9	849.3	1570.6	1867.4	1243.2	823.7	527.0	675.3
19149.4	52.5°	15189.6	8492.7	521.8	803.2	1632.0	1841.8	1243.2	854.4	527.0	588.3
22198.6	55°	17005.8	9029.8	752.1	1002.7	1857.1	2010.6	1529.7	1197.2	736.7	757.2
25119.8	57.5°	19011.3	9582.4	839.0	1053.9	1908.3	1811.1	1647.4	1319.9	777.6	782.8
27391.4	60°	20331.2	9602.8	833.9	1028.3	1785.5	1565.5	1611.6	1391.6	793.0	670.2
28798.3	62.5°	20858.2	8978.7	869.7	1028.3	1662.7	1463.2	1652.5	1499.0	818.6	839.0
29197.3	65°	20259.6	7689.4	839.0	920.9	1463.2	1309.7	1662.7	1519.5	895.3	844.1
28481.1	67°	19323.3	6625.3	854.4	874.8	1360.9	1243.2	1749.7	1596.2	1038.6	1013.0
28107.6	67.5°	19057.3	6343.9	849.3	849.3	1325.1	1222.7	1770.2	1596.2	1059.0	1048.8
24807.8	70°	16796.0	5141.6	869.7	839.0	1171.6	1161.3	1882.7	1683.2	1217.6	1227.9
18223.4	72.5°	12785.0	3898.4	864.6	839.0	1018.1	1110.2	1898.1	1739.5	1325.1	1227.9
10206.5	75°	7264.8	2332.9	762.3	731.6	803.2	966.9	1775.3	1657.6	1289.2	1100.0
4077.5	77.5°	3003.1	1202.3	700.9	660.0	665.1	787.9	1478.5	1545.0	1227.9	936.2
1360.9	80°	1120.4	721.4	562.8	527.0	511.6	578.1	1053.9	1233.0	1048.8	767.4
598.6	82.5°	583.2	450.2	383.7	383.7	347.9	368.4	567.9	818.6	793.0	527.0
240.5	85°	296.7	255.8	220.0	214.9	194.4	173.9	286.5	486.0	455.3	291.6
107.4	87.5°	158.6	143.2	92.1	87.0	71.6	46.0	51.2	97.2	158.6	127.9
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>
6789.0
7500.1
7750.8
7249.5
6369.5
5504.9
4507.2
3801.2
3366.4
3131.0
2921.3
2660.3
2327.8
1831.5
1309.7
869.7
527.0
424.6
562.8
711.1
782.8
603.7
798.1
757.2
690.7
849.3
828.8
997.6
1028.3
1135.8
1089.7
982.3
885.1
700.9
414.4
240.5
92.1
0.0

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