

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: P477902

Luminaire Tested: **IFLD-S-SA6E-827-U-T3R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477902
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6E-827-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (96) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

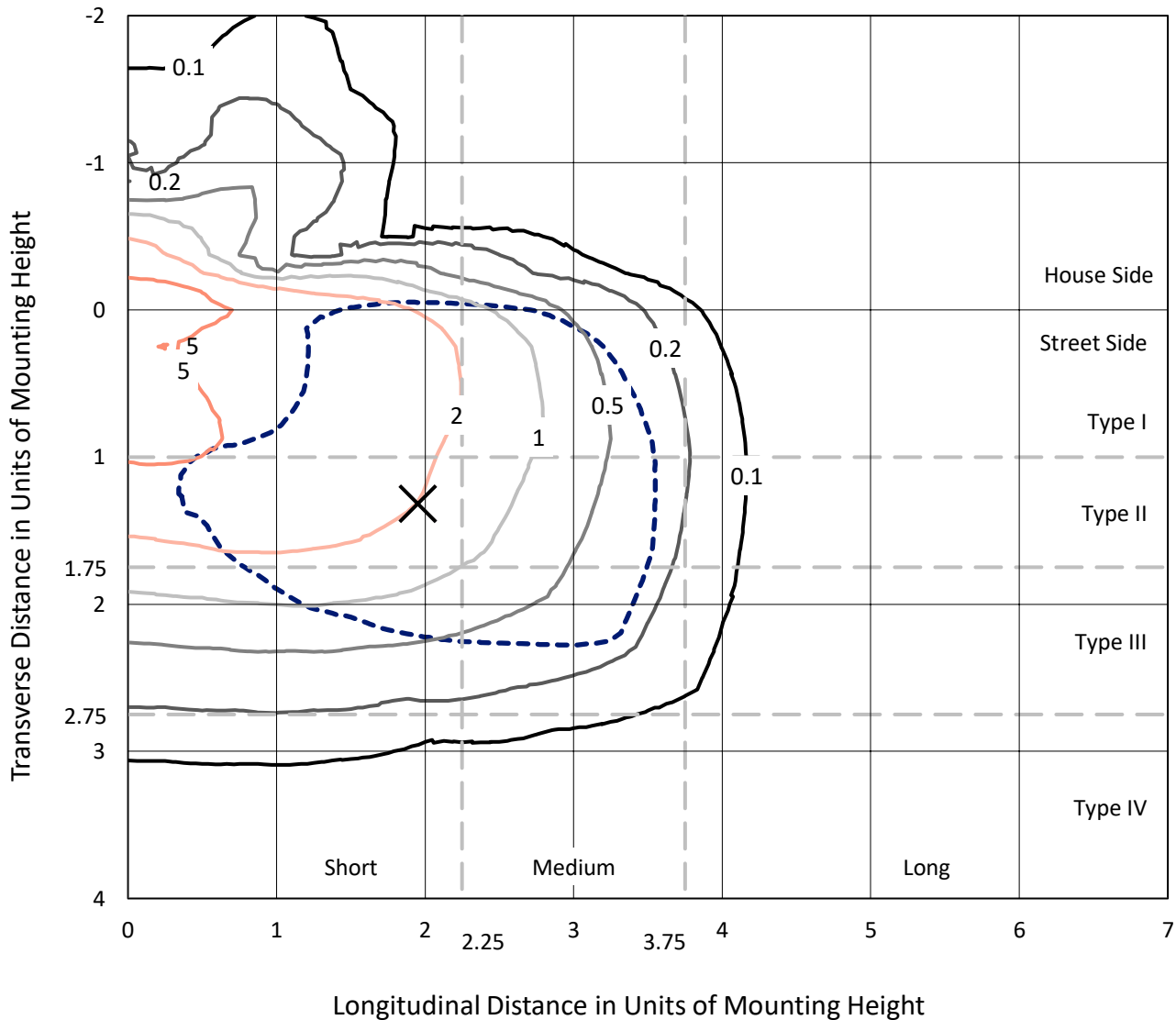
Lumens per Lamp: N/A
Luminaire Lumens: 38207.7 lumens
Efficiency: N/A
Efficacy: 82.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 464.2
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

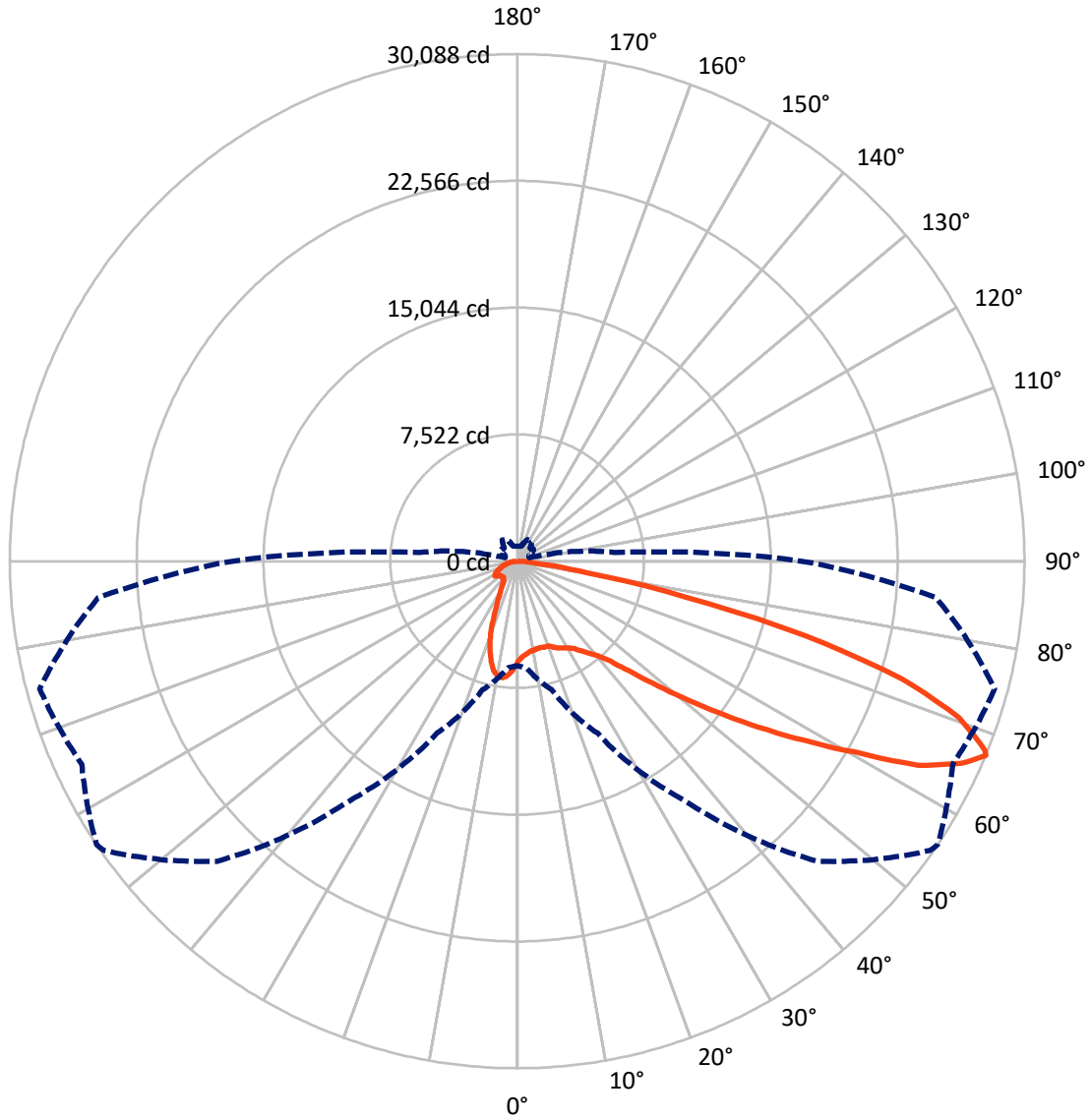
✕ Max cd
 - - - 1/2 Max cd



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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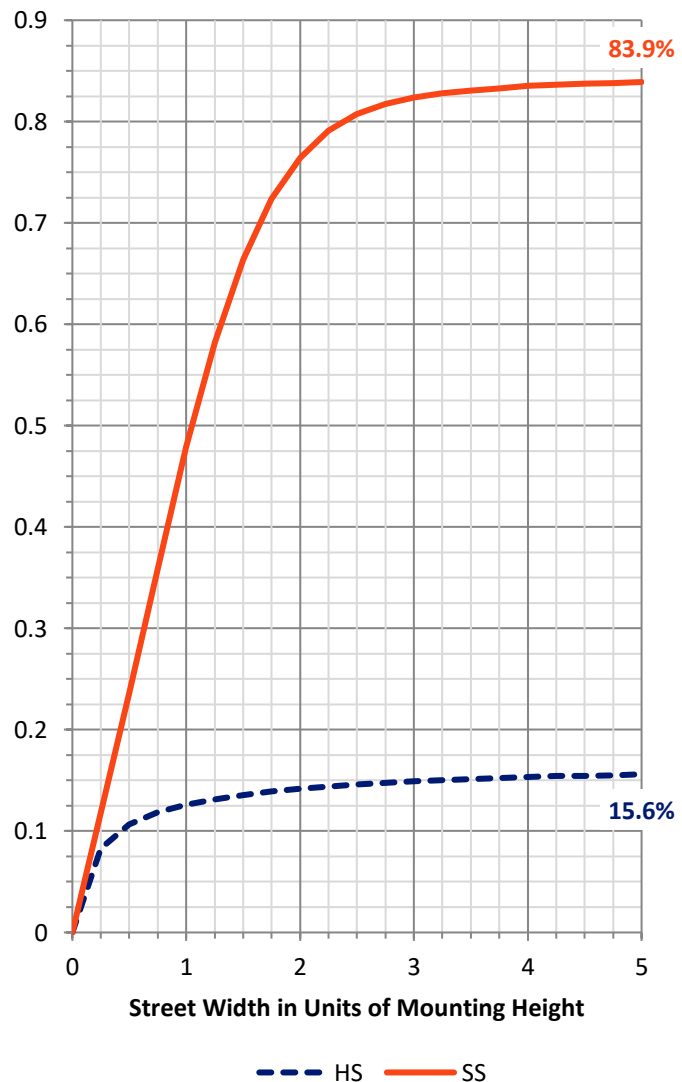
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6048.7	0.0	6048.7
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	32159.1	0.0	32159.1
	% Fixture	84.2	0.0	84.2
Total	Lumens	38207.7	0.0	38207.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	572.7	1.5
10°-20°	1562.5	4.1
20°-30°	2450.4	6.4
30°-40°	3498.0	9.2
40°-50°	5279.5	13.8
50°-60°	8404.1	22.0
60°-70°	10743.9	28.1
70°-80°	5238.4	13.7
80°-90°	458.2	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°	38207.7	100.0
0°-180°	38207.7	100.0

Coefficient of Utilization

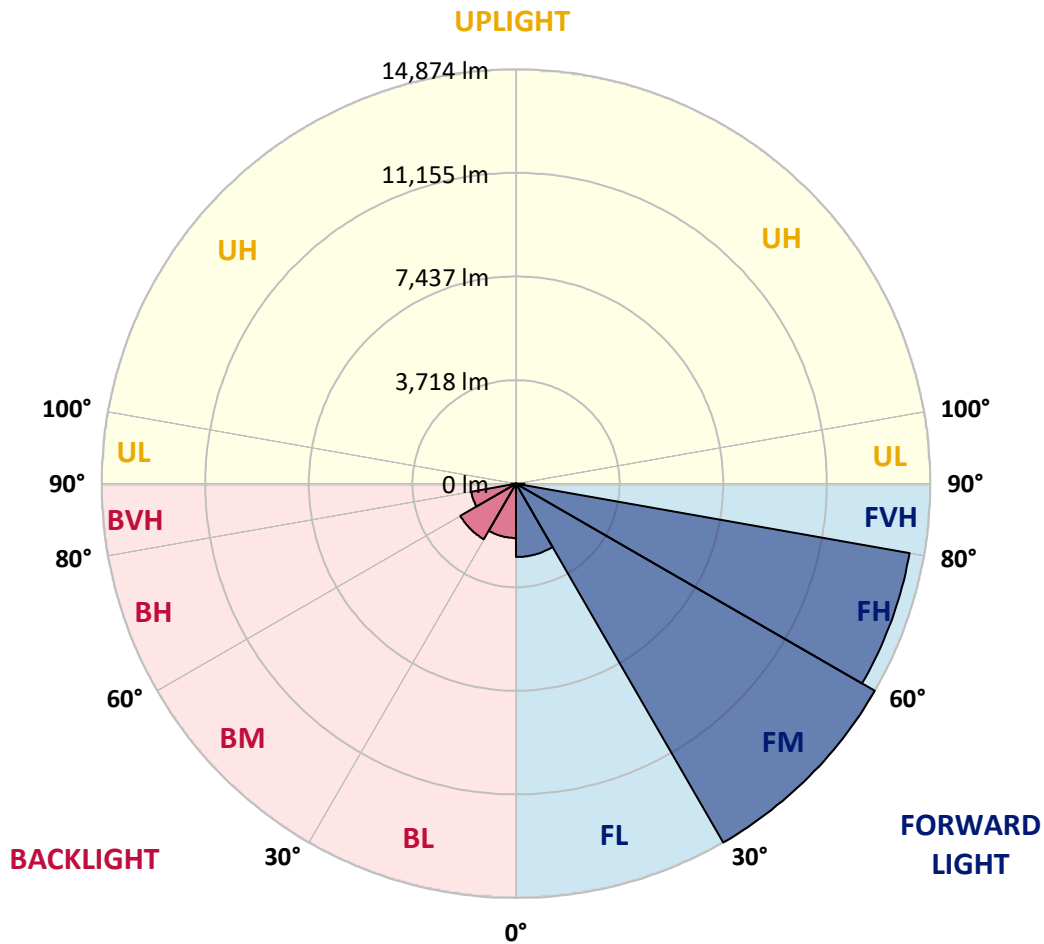


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2632.9	6.9			
FM (30°-60°)	14873.9	38.9			
FH (60°-80°)	14347.9	37.6			G5
FVH (80°-90°)	304.3	0.8			G3/500
BL (0°-30°)	1952.7	5.1	B3/2500		
BM (30°-60°)	2307.6	6.0	B2/2500		
BH (60°-80°)	1634.5	4.3	B3/2500		G3/2500
BVH (80°-90°)	153.9	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°	5945.0	5945.0	5945.0	5945.0	5945.0	5945.0	5945.0	5945.0	5945.0	5945.0
2.5°	5461.2	5438.8	5465.7	5438.8	5559.7	5631.4	5653.8	5685.2	5797.2	5904.7
5°	5232.7	5134.1	5241.7	5277.5	5286.5	5407.4	5532.9	5555.3	5613.5	5788.2
7.5°	4851.9	4963.9	4923.6	5031.1	5143.1	5264.1	5470.1	5411.9	5626.9	5792.7
10°	4771.3	4780.2	4825.0	4865.3	4963.9	5120.7	5407.4	5371.6	5591.1	5945.0
12.5°	4851.9	4851.9	4838.5	4807.1	4919.1	5071.4	5299.9	5317.8	5662.8	5989.8
15°	5134.1	5187.9	5044.5	5066.9	5022.1	5071.4	5273.0	5313.3	5689.7	6025.7
17.5°	5824.1	5806.1	5635.9	5398.5	5201.3	5170.0	5308.9	5353.7	5662.8	6128.7
20°	6496.1	6460.2	6164.5	5918.1	5528.4	5344.7	5367.1	5371.6	5707.6	6195.9
22.5°	7244.2	7338.3	7015.8	6514.0	6030.1	5573.2	5483.6	5555.3	5810.6	6231.7
25°	8418.0	8216.4	7938.6	7280.1	6500.5	5927.1	5676.2	5712.1	5909.2	6321.3
27.5°	9264.7	9184.1	8749.5	8216.4	7159.1	6204.9	5779.3	5846.5	6088.4	6316.9
30°	10080.1	10080.1	9815.8	9018.3	7853.5	6670.8	5998.8	5967.4	6003.3	6307.9
32.5°	11034.4	10904.4	10523.6	9995.0	8727.1	7096.4	6173.5	6182.5	6182.5	6473.7
35°	11536.1	11746.7	11491.3	10631.2	9394.7	7804.2	6594.6	6527.4	6478.1	6657.4
37.5°	12270.9	12396.3	12127.5	11621.2	10223.5	8377.7	6966.5	6912.7	6626.0	6800.7
40°	12714.4	12692.0	12683.0	12450.1	11321.1	9054.2	7513.0	7374.2	6988.9	7307.0
42.5°	12965.3	12920.5	13471.5	13328.1	12356.0	10048.7	8198.5	8122.3	7696.7	8207.4
45°	13247.5	13579.0	14031.5	14434.7	13561.1	11446.5	9358.8	9251.3	8870.5	9520.1
47.5°	13493.9	13901.6	14479.5	14909.6	14649.8	12965.3	10792.4	10819.3	10568.4	11236.0
50°	13906.1	13946.4	14730.4	15599.5	15801.1	14367.5	12718.9	12674.1	12562.1	13498.4
52.5°	13780.6	13901.6	14891.7	16002.7	16334.3	15850.4	14788.6	14923.0	14775.2	15953.4
55°	11737.7	12100.6	14793.1	16428.3	17597.6	17525.9	17449.8	17360.2	17351.2	18713.2
57.5°	10810.4	11106.0	13032.5	16898.7	18950.6	19479.2	19972.1	20070.6	20066.1	21710.3
60°	10201.1	10505.7	12320.1	16643.4	20102.0	22037.4	22982.6	22996.1	22969.2	24913.5
62.5°	9009.4	9305.1	11088.1	15245.6	20420.1	24398.3	26504.0	26678.7	25446.7	27673.3
65°	7575.8	7817.7	9390.2	13108.6	19573.3	25899.2	29151.7	28945.6	27534.4	29250.2
67°	6195.9	6357.2	7889.4	11253.9	17360.2	25177.9	29917.8	30088.0	28497.6	29317.4
67.5°	5801.7	5949.5	7396.6	10622.2	16517.9	24631.3	29944.6	29917.8	28515.5	29330.9
70°	4027.6	4090.3	5040.1	7307.0	12167.8	20809.8	27758.4	27821.1	27319.3	27740.5
72.5°	2670.1	2764.2	3369.0	4605.5	7172.6	15142.6	23202.2	23874.2	23556.1	22745.2
75°	1720.3	1774.1	2204.2	2741.8	3530.3	8624.1	17140.7	17588.7	16858.4	14067.3
77.5°	963.2	1021.5	1330.6	1666.6	1720.3	3588.5	9627.6	10183.1	8628.6	5976.4
80°	600.3	676.5	1003.5	990.1	819.8	1317.1	3969.3	4251.6	3449.6	2056.3
82.5°	452.5	510.7	775.0	694.4	461.4	586.9	1487.4	1594.9	1263.4	793.0
85°	309.1	389.8	560.0	430.1	241.9	282.2	591.4	636.2	577.9	385.3
87.5°	112.0	165.8	291.2	215.0	107.5	85.1	192.6	215.0	206.1	174.7
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°
5945.0	0°	5945.0	5945.0	5945.0	5945.0	5945.0	5945.0	5945.0	5945.0	5945.0	5945.0
5998.8	2.5°	6083.9	6146.6	6178.0	6361.7	6437.8	6424.4	6442.3	6469.2	6496.1	6531.9
6074.9	5°	6133.2	6325.8	6428.9	6643.9	6787.3	6724.6	6805.2	6782.8	6751.4	6747.0
6213.8	7.5°	6294.5	6540.9	6850.0	6908.2	6971.0	6814.2	6679.8	6496.1	6451.3	6294.5
6330.3	10°	6581.2	6782.8	7159.1	7181.5	6903.8	6500.5	6200.4	5819.6	5815.1	5586.6
6509.5	12.5°	6854.5	7083.0	7387.6	7257.7	6594.6	6043.6	5555.3	5138.6	4963.9	4847.4
6617.0	15°	7024.7	7401.0	7562.3	7002.3	6052.5	5308.9	4677.2	4229.2	4050.0	3964.8
6751.4	17.5°	7181.5	7705.7	7634.0	6554.3	5385.0	4551.7	3799.1	3409.3	3360.0	3297.3
6966.5	20°	7396.6	7817.7	7378.6	5971.9	4627.9	3575.1	3095.7	2907.6	2952.4	2979.2
6988.9	22.5°	7598.2	7875.9	7056.1	5335.7	3655.7	2831.4	2593.9	2634.3	2701.5	2791.1
7042.6	25°	7687.8	7970.0	6621.5	4457.6	2782.1	2383.4	2329.6	2396.8	2508.8	2513.3
7118.8	27.5°	7746.0	7902.8	6097.3	3602.0	2199.7	2083.2	2163.9	2213.1	2226.6	2280.3
7280.1	30°	7849.0	7763.9	5434.3	2576.0	1845.8	1850.3	1953.3	1953.3	1953.3	1993.6
7441.4	32.5°	8028.2	7669.8	4659.2	1881.6	1590.4	1733.8	1706.9	1697.9	1680.0	1630.7
7647.4	35°	8140.2	7414.5	3678.1	1393.3	1429.1	1590.4	1581.5	1442.6	1209.6	1093.1
8171.6	37.5°	8373.2	7284.6	2705.9	1075.2	1335.1	1518.7	1469.5	1133.5	878.1	766.1
8821.2	40°	8875.0	7199.4	1872.7	940.8	1272.3	1482.9	1312.7	967.7	672.0	474.9
9824.7	42.5°	9488.7	7203.9	1272.3	887.0	1276.8	1559.1	1263.4	828.8	474.9	380.8
11164.3	45°	10313.1	7136.7	873.6	887.0	1357.5	1684.5	1294.7	752.6	461.4	483.8
12844.3	47.5°	11200.1	7195.0	649.6	806.4	1370.9	1689.0	1182.7	739.2	443.5	560.0
14672.2	50°	12235.0	7253.2	537.6	743.7	1375.4	1635.2	1088.7	721.3	461.4	591.4
16768.8	52.5°	13301.3	7436.9	457.0	703.4	1429.1	1612.8	1088.7	748.2	461.4	515.2
19438.9	55°	14891.7	7907.3	658.6	878.1	1626.3	1760.7	1339.5	1048.3	645.1	663.0
21997.0	57.5°	16647.9	8391.1	734.7	922.9	1671.1	1585.9	1442.6	1155.9	681.0	685.4
23986.2	60°	17803.7	8409.0	730.2	900.5	1563.5	1370.9	1411.2	1218.6	694.4	586.9
25218.2	62.5°	18265.2	7862.5	761.6	900.5	1456.0	1281.3	1447.1	1312.7	716.8	734.7
25567.6	65°	17741.0	6733.5	734.7	806.4	1281.3	1146.9	1456.0	1330.6	784.0	739.2
24940.4	67°	16921.1	5801.7	748.2	766.1	1191.7	1088.7	1532.2	1397.8	909.4	887.0
24613.4	67.5°	16688.2	5555.3	743.7	743.7	1160.3	1070.7	1550.1	1397.8	927.4	918.4
21723.8	70°	14708.0	4502.4	761.6	734.7	1025.9	1017.0	1648.7	1473.9	1066.3	1075.2
15957.9	72.5°	11195.6	3413.8	757.1	734.7	891.5	972.2	1662.1	1523.2	1160.3	1075.2
8937.7	75°	6361.7	2042.9	667.5	640.6	703.4	846.7	1554.6	1451.5	1129.0	963.2
3570.6	77.5°	2629.8	1052.8	613.8	577.9	582.4	689.9	1294.7	1353.0	1075.2	819.8
1191.7	80°	981.1	631.7	492.8	461.4	448.0	506.2	922.9	1079.7	918.4	672.0
524.2	82.5°	510.7	394.2	336.0	336.0	304.6	322.6	497.3	716.8	694.4	461.4
210.6	85°	259.8	224.0	192.6	188.2	170.2	152.3	250.9	425.6	398.7	255.4
94.1	87.5°	138.9	125.4	80.6	76.2	62.7	40.3	44.8	85.1	138.9	112.0
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°
5945.0
6567.7
6787.3
6348.2
5577.7
4820.5
3946.9
3328.7
2947.9
2741.8
2558.1
2329.6
2038.4
1603.9
1146.9
761.6
461.4
371.8
492.8
622.7
685.4
528.6
698.9
663.0
604.8
743.7
725.8
873.6
900.5
994.6
954.3
860.2
775.0
613.8
362.9
210.6
80.6
0.0

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