

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: P477277

Luminaire Tested: **IFLD-S-SA6D-727-U-T3**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477277  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6D-727-U-T3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens  
Light Source: (96) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

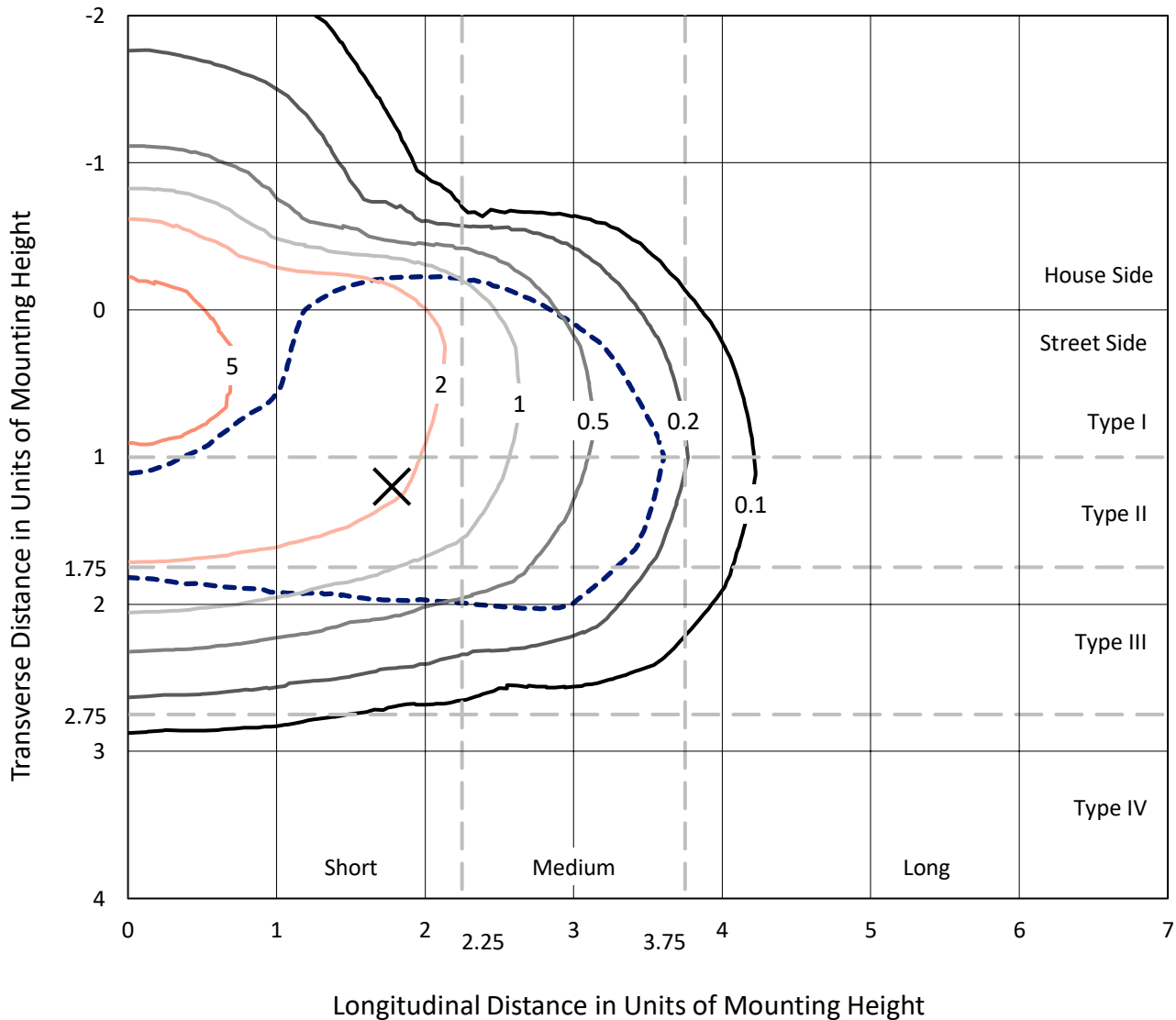
Lumens per Lamp: N/A  
Luminaire Lumens: 38945.3 lumens  
Efficiency: N/A  
Efficacy: 105.8 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 368.2  
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

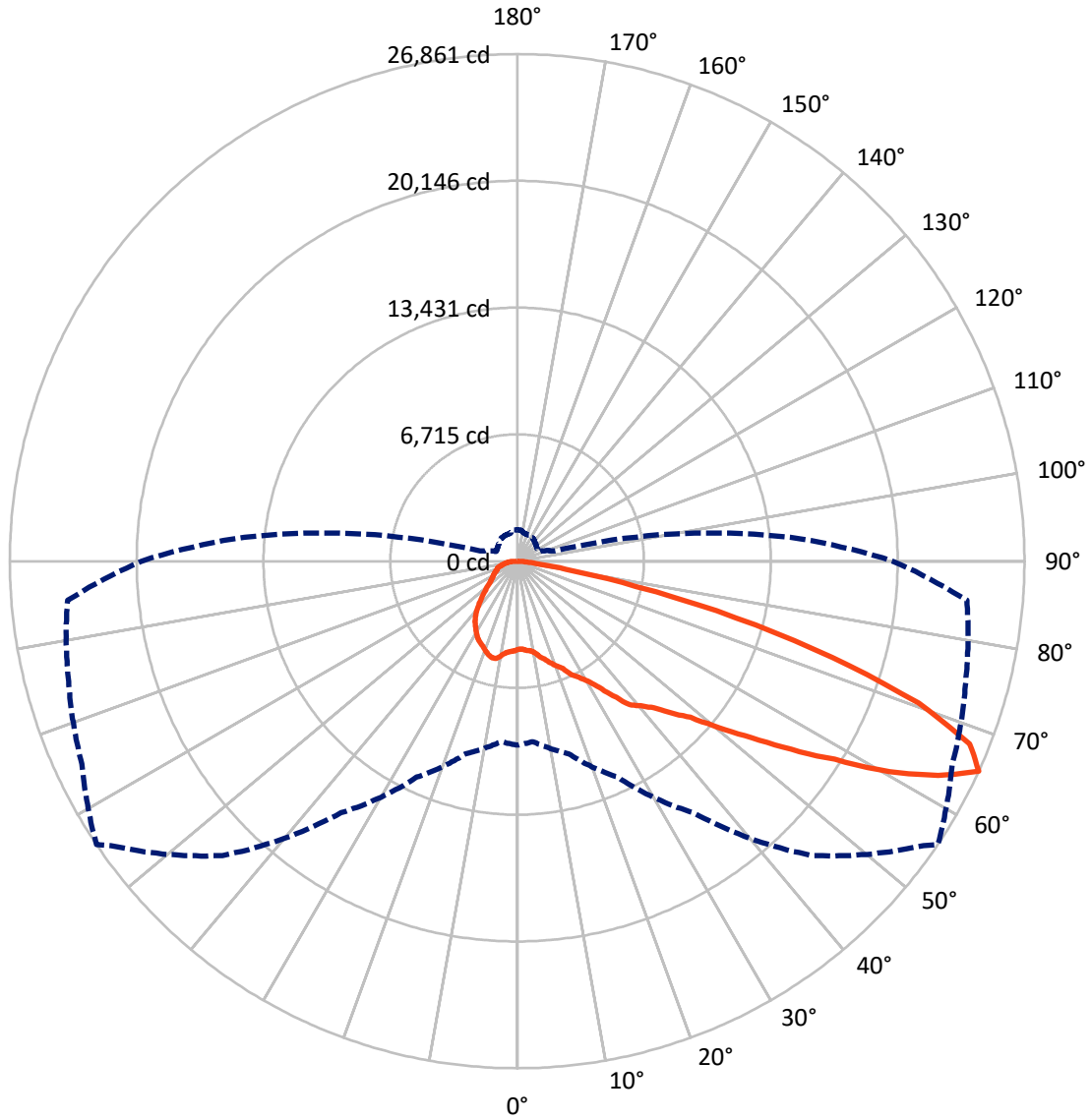
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6 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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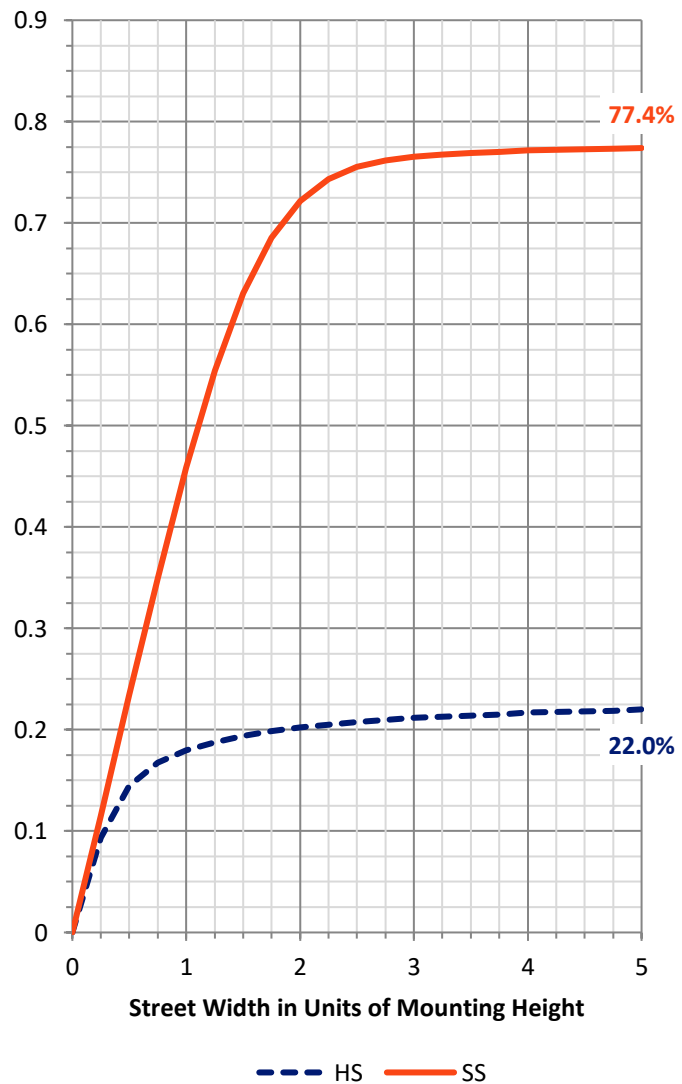
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8734.2	0.0	8734.2
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	30211.2	0.0	30211.2
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	38945.3	0.0	38945.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	463.2	1.2
10°-20°	1504.2	3.9
20°-30°	2678.3	6.9
30°-40°	4010.6	10.3
40°-50°	5942.3	15.3
50°-60°	9156.2	23.5
60°-70°	10365.9	26.6
70°-80°	4302.0	11.0
80°-90°	522.6	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°	38945.3	100.0
0°-180°	38945.3	100.0

**Coefficient of Utilization**

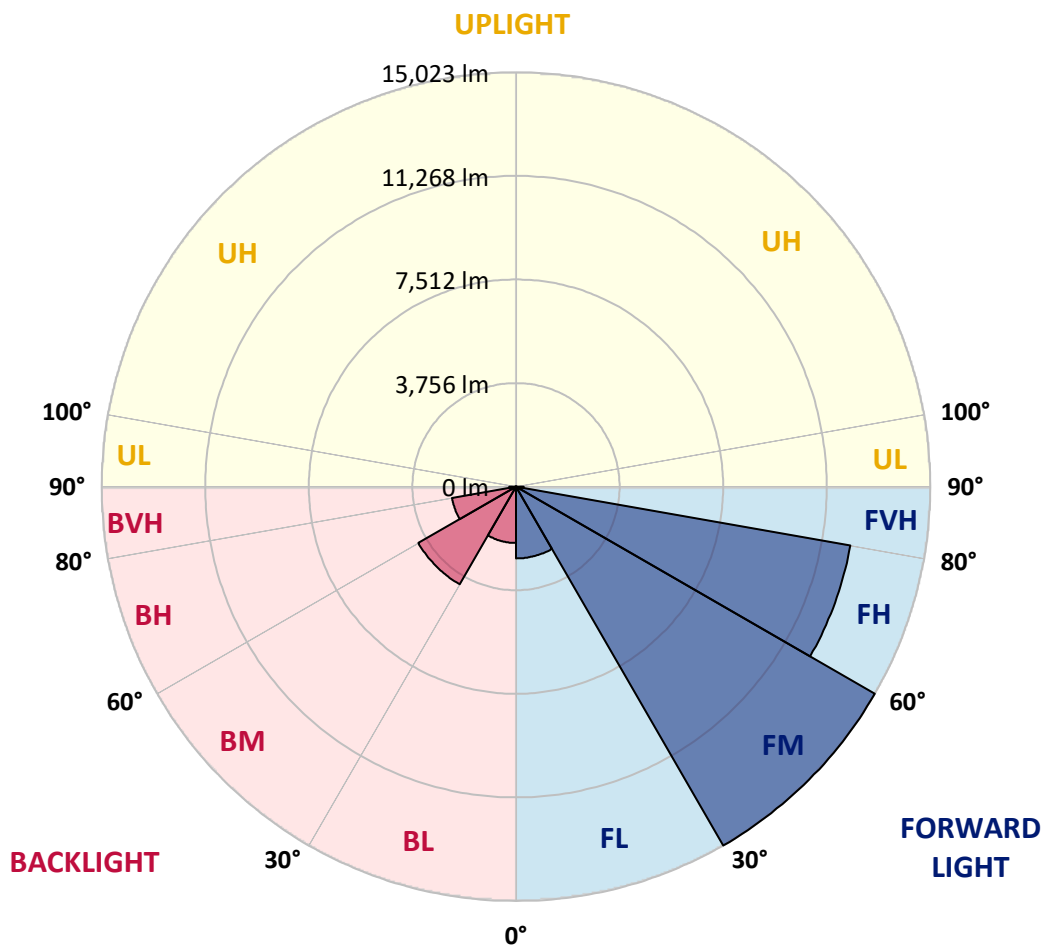


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2602.7	6.7			
FM (30°-60°)	15023.4	38.6			
FH (60°-80°)	12309.4	31.6			G5
FVH (80°-90°)	275.7	0.7			G3/500
BL (0°-30°)	2043.0	5.2	B3/2500		
BM (30°-60°)	4085.7	10.5	B3/5000		
BH (60°-80°)	2358.5	6.1	B3/2500		G3/2500
BVH (80°-90°)	247.0	0.6			G3/500
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°	4674.6	4674.6	4674.6	4674.6	4674.6	4674.6	4674.6	4674.6	4674.6	4674.6
2.5°	4552.3	4576.7	4560.4	4609.3	4650.1	4650.1	4682.7	4658.3	4690.9	4735.7
5°	4703.1	4605.3	4658.3	4682.7	4670.5	4690.9	4658.3	4739.8	4686.8	4772.4
7.5°	4739.8	4776.4	4821.3	4780.5	4817.2	4796.8	4800.9	4788.7	4760.1	4829.4
10°	5008.7	4955.8	5057.6	4996.5	4988.4	4980.2	4963.9	4902.8	4972.1	4976.1
12.5°	5318.5	5269.6	5265.5	5216.6	5281.8	5163.6	5188.1	5155.5	5167.7	5184.0
15°	5542.6	5522.2	5616.0	5558.9	5473.3	5420.4	5477.4	5387.8	5432.6	5424.4
17.5°	5986.9	5982.8	5913.5	5819.8	5770.9	5693.4	5681.2	5644.5	5677.1	5660.8
20°	6296.6	6341.4	6353.6	6243.6	6056.1	5970.5	5950.2	5921.6	5958.3	5946.1
22.5°	6769.3	6700.1	6753.0	6561.5	6492.2	6288.4	6215.1	6174.3	6349.6	6304.7
25°	7070.9	7144.3	7091.3	7026.1	6871.2	6618.5	6565.6	6655.2	6724.5	6675.6
27.5°	7751.5	7678.2	7629.3	7433.6	7331.8	7066.8	7005.7	6973.1	6989.4	7017.9
30°	8269.1	8309.9	8199.8	8061.3	7804.5	7535.5	7392.9	7364.4	7307.3	7258.4
32.5°	9006.8	8945.6	8880.4	8790.8	8570.7	8216.1	8077.6	7971.6	7800.4	7572.2
35°	9361.3	9536.6	9487.7	9247.2	9080.1	8945.6	8904.9	8741.9	8599.2	8240.6
37.5°	9952.3	10025.6	9956.3	9878.9	9801.5	9658.8	9609.9	9654.8	9373.6	8782.6
40°	10335.4	10490.2	10632.9	10416.9	10400.6	10429.1	10127.5	10074.5	9495.8	9186.1
42.5°	11117.9	11183.1	11211.6	11203.4	11297.2	11297.2	10722.5	10608.4	10196.8	9944.1
45°	12153.0	12206.0	12307.9	12381.2	12275.3	12328.3	11509.1	11464.3	11097.5	11048.6
47.5°	13049.6	13176.0	13404.2	13620.2	13758.8	13579.4	12682.8	12364.9	12271.2	12564.6
50°	13832.1	13681.3	14215.2	14435.3	15042.5	15340.0	13978.8	13852.5	13701.7	14264.1
52.5°	13909.5	14113.3	14867.3	15307.4	16558.6	17108.8	15568.3	15515.3	15331.9	15979.9
55°	14463.8	14439.4	15197.4	16151.0	17638.6	18563.7	17638.6	17606.0	17206.6	17822.0
57.5°	14370.1	14618.7	15217.8	16550.4	18612.6	20124.6	20039.0	19814.9	19256.5	19757.8
60°	14052.2	14117.4	14846.9	16538.2	19179.1	21726.3	22631.0	22675.9	21534.7	21934.1
62.5°	12250.8	12401.6	13326.8	15238.1	18775.6	22830.7	25161.9	25002.9	24090.0	23633.6
65°	9744.4	9593.6	10555.4	12621.7	16265.2	22048.2	26270.4	26861.4	25426.8	24591.3
67.5°	5974.6	5937.9	6863.1	8684.8	12169.3	18763.4	25386.0	25846.6	25055.9	24387.6
70°	3077.0	2983.2	3562.0	4845.7	7649.6	13766.9	22093.1	22545.4	23299.4	21873.0
72.5°	1434.6	1414.2	1723.9	2384.1	3896.1	8093.9	17108.8	17434.8	19024.2	18441.5
75°	843.6	855.8	1031.1	1247.1	1899.2	3814.6	11354.2	11985.9	13709.8	13290.1
77.5°	631.7	631.7	733.6	868.1	1108.5	1475.3	5603.8	6439.2	8016.4	7209.5
80°	464.6	472.8	562.4	652.1	770.3	762.1	2225.2	2608.3	3676.1	3142.2
82.5°	362.7	374.9	436.1	485.0	542.0	460.5	912.9	982.2	1512.0	1202.3
85°	252.7	260.8	342.3	330.1	330.1	256.8	379.0	399.4	599.1	570.6
87.5°	61.1	69.3	167.1	183.4	138.6	77.4	118.2	134.5	216.0	248.6
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°
4674.6	0°	4674.6	4674.6	4674.6	4674.6	4674.6	4674.6	4674.6	4674.6	4674.6	4674.6
4756.1	2.5°	4694.9	4711.2	4780.5	4743.8	4764.2	4678.6	4747.9	4690.9	4739.8	4715.3
4792.7	5°	4825.3	4788.7	4829.4	4800.9	4800.9	4833.5	4882.4	4845.7	4919.1	4886.5
4821.3	7.5°	4878.3	4882.4	4906.9	4910.9	4890.6	4992.4	4996.5	4984.3	5053.6	5037.3
5016.9	10°	5008.7	5012.8	5057.6	5082.1	5061.7	5098.4	5057.6	5025.0	5021.0	5004.7
5171.8	12.5°	5216.6	5257.3	5249.2	5269.6	5273.6	5118.8	5025.0	4866.1	4845.7	4866.1
5400.0	15°	5408.1	5391.8	5400.0	5440.7	5269.6	5021.0	4853.9	4719.4	4727.5	4731.6
5697.5	17.5°	5636.4	5648.6	5660.8	5473.3	5159.5	4866.1	4719.4	4719.4	4678.6	4694.9
5905.3	20°	5897.2	5848.3	5742.3	5477.4	4968.0	4686.8	4641.9	4641.9	4593.0	4560.4
6129.5	22.5°	6101.0	6003.2	5844.2	5351.1	4796.8	4617.5	4507.5	4430.0	4373.0	4307.8
6378.1	25°	6231.4	6178.4	5868.7	5220.7	4670.5	4434.1	4271.1	4152.9	4079.5	3994.0
6573.7	27.5°	6431.1	6329.2	5937.9	5069.9	4531.9	4250.7	3998.0	3814.6	3676.1	3586.4
6871.2	30°	6700.1	6553.3	5889.0	4853.9	4320.0	3932.8	3635.3	3398.9	3240.0	3166.6
7152.4	32.5°	6920.1	6728.6	5848.3	4658.3	4083.6	3610.9	3215.5	2975.1	2885.4	2791.7
7625.2	35°	7339.9	6960.9	5819.8	4548.2	3871.7	3288.9	2873.2	2665.4	2551.2	2412.7
7906.4	37.5°	7661.9	7364.4	5750.5	4320.0	3598.6	2975.1	2612.4	2424.9	2253.7	2107.0
8558.5	40°	8167.2	7926.8	5754.5	3998.0	3276.7	2706.1	2408.6	2213.0	1997.0	1870.6
9524.3	42.5°	9116.8	8481.0	5779.0	3741.3	2914.0	2486.0	2225.2	1992.9	1776.9	1670.9
10624.7	45°	10282.4	9243.1	5628.2	3509.0	2543.1	2278.2	2005.1	1772.8	1634.3	1556.8
12120.4	47.5°	11623.2	9989.0	5424.4	3072.9	2233.4	2058.1	1801.4	1666.9	1565.0	1520.1
14048.1	50°	13123.0	11056.7	5367.4	2673.5	1992.9	1870.6	1703.5	1601.7	1532.4	1479.4
16220.3	52.5°	15054.7	12299.7	5253.3	2261.9	1785.1	1719.8	1666.9	1597.6	1536.4	1491.6
18245.8	55°	16900.9	13677.2	5131.0	1923.6	1638.3	1646.5	1675.0	1613.9	1560.9	1491.6
20515.9	57.5°	18979.4	15083.3	4678.6	1675.0	1528.3	1609.8	1666.9	1597.6	1544.6	1491.6
22838.9	60°	20263.2	15873.9	3794.3	1459.0	1430.5	1540.5	1618.0	1544.6	1487.5	1507.9
23906.6	62.5°	20784.8	15458.2	2861.0	1324.5	1361.2	1446.8	1540.5	1512.0	1471.2	1548.7
23894.4	65°	19896.4	14500.5	2045.9	1210.4	1267.5	1353.1	1471.2	1503.8	1516.1	1666.9
21946.4	67.5°	17703.8	12625.8	1503.8	1116.7	1169.7	1296.0	1520.1	1573.1	1565.0	1752.4
18417.0	70°	14166.3	9874.8	1173.7	1039.2	1133.0	1340.8	1589.4	1589.4	1532.4	1752.4
14048.1	72.5°	10306.8	6960.9	1010.7	949.6	1039.2	1230.8	1581.3	1577.2	1503.8	1601.7
8945.6	75°	6239.5	4051.0	892.5	859.9	892.5	1055.5	1512.0	1487.5	1385.7	1377.5
4303.7	77.5°	3109.6	2037.7	729.5	762.1	778.4	884.4	1328.6	1365.3	1226.7	1194.1
1699.5	80°	1312.3	888.5	607.2	656.1	656.1	745.8	1104.4	1128.9	1018.9	957.7
672.5	82.5°	599.1	509.4	517.6	570.6	533.9	578.7	876.2	904.8	827.3	725.4
285.3	85°	252.7	289.4	395.3	448.3	395.3	374.9	603.2	635.8	538.0	448.3
122.3	87.5°	114.1	158.9	248.6	326.0	199.7	175.2	322.0	334.2	269.0	199.7
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>
4674.6
4670.5
4841.6
5012.8
5004.7
4874.2
4788.7
4699.0
4511.5
4271.1
4010.3
3627.2
3207.4
2787.6
2400.4
2111.1
1882.9
1679.1
1573.1
1512.0
1487.5
1487.5
1487.5
1487.5
1491.6
1528.3
1666.9
1764.7
1715.8
1544.6
1361.2
1173.7
937.4
709.1
452.4
187.5
0.0

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