

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: P477525

Luminaire Tested: **IFLD-L-SA8C-827-U-T3**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477525  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8C-827-U-T3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens  
Light Source: (128) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

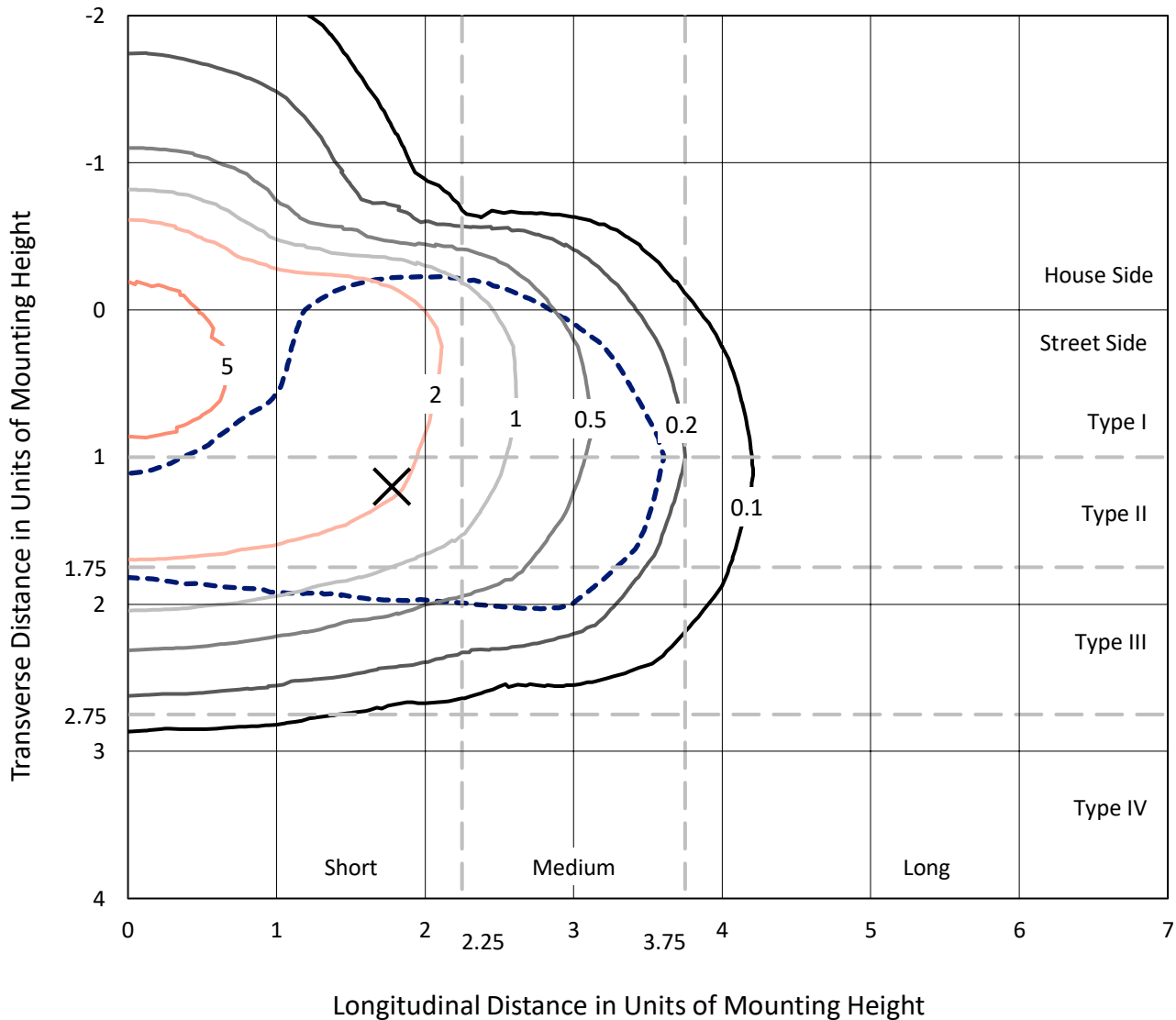
Lumens per Lamp: N/A  
Luminaire Lumens: 37932.8 lumens  
Efficiency: N/A  
Efficacy: 90.3 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 420.3  
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

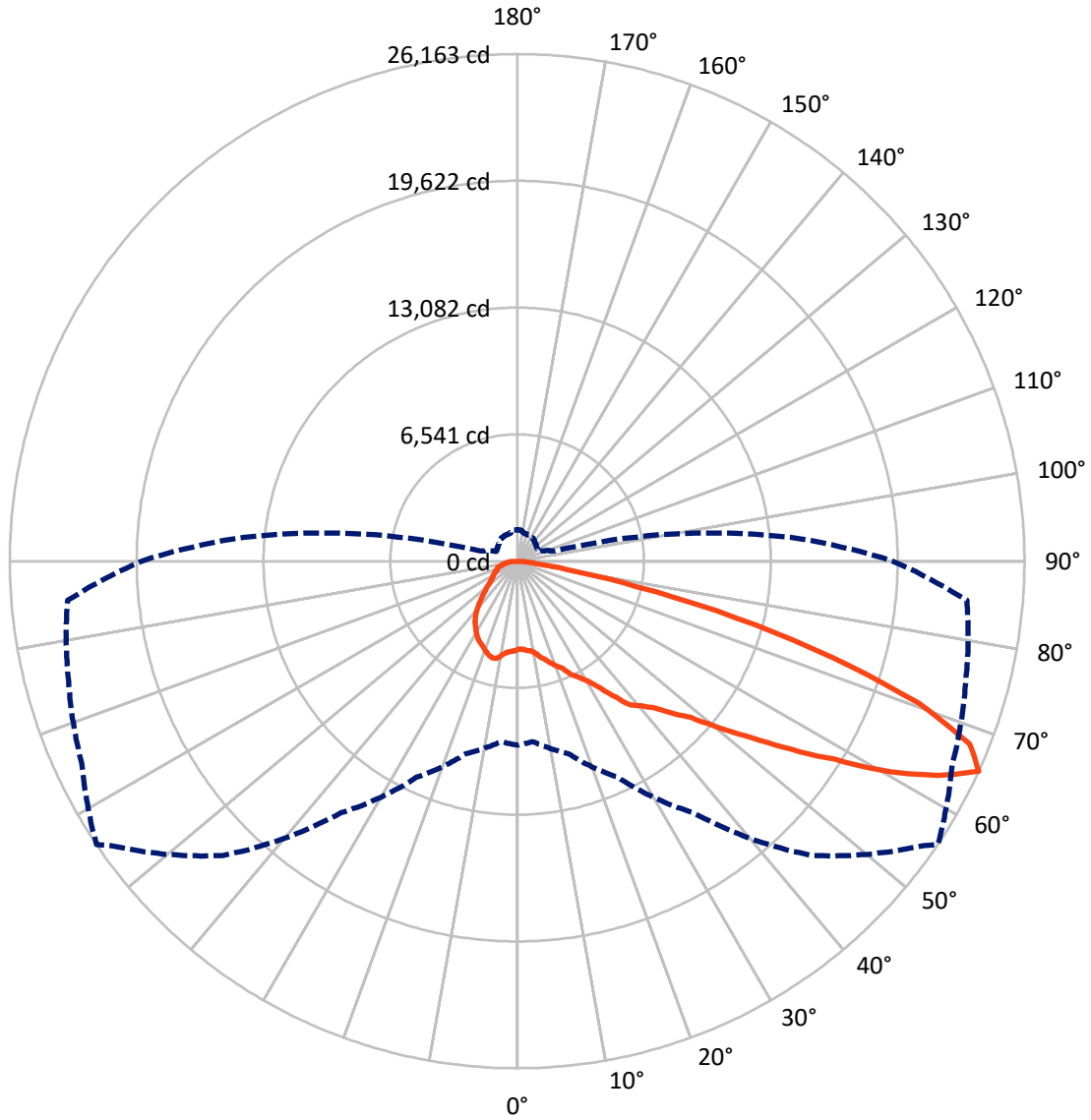
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.8 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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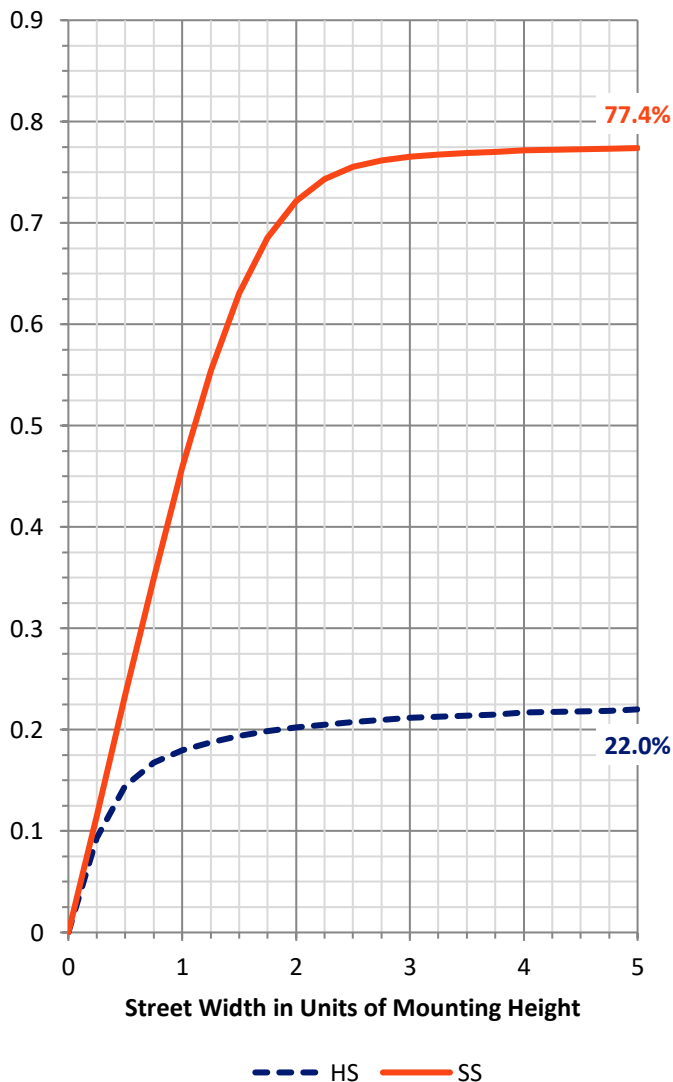
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8507.1	0.0	8507.1
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	29425.7	0.0	29425.7
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	37932.8	0.0	37932.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	451.2	1.2
10°-20°	1465.1	3.9
20°-30°	2608.7	6.9
30°-40°	3906.4	10.3
40°-50°	5787.8	15.3
50°-60°	8918.2	23.5
60°-70°	10096.4	26.6
70°-80°	4190.1	11.0
80°-90°	509.0	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°	37932.8	100.0
0°-180°	37932.8	100.0

**Coefficient of Utilization**



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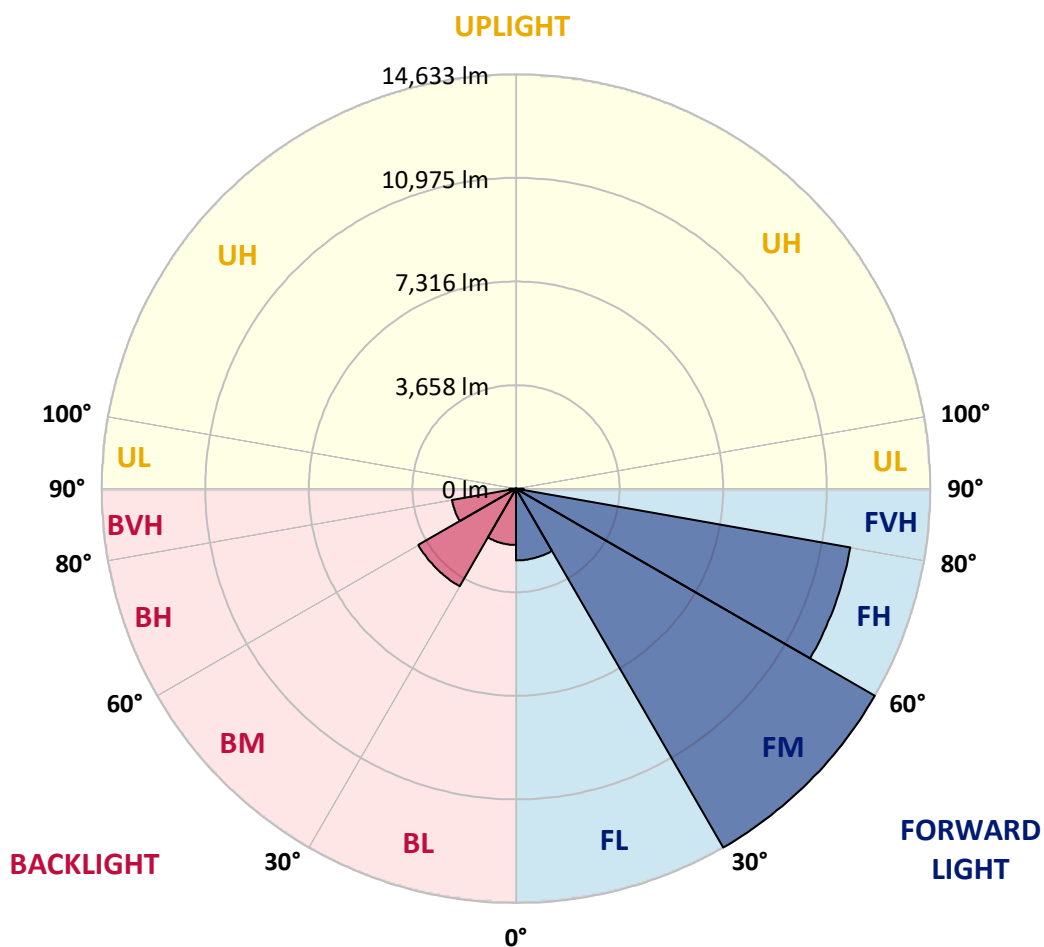
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2535.0	6.7			
FM (30°-60°)	14632.8	38.6			
FH (60°-80°)	11989.4	31.6			G4/12000
FVH (80°-90°)	268.5	0.7			G3/500
BL (0°-30°)	1989.9	5.2	B3/2500		
BM (30°-60°)	3979.5	10.5	B3/5000		
BH (60°-80°)	2297.2	6.1	B3/2500		G3/2500
BVH (80°-90°)	240.5	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-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	4553.0	4553.0	4553.0	4553.0	4553.0	4553.0	4553.0	4553.0	4553.0	4553.0
2.5°	4433.9	4457.8	4441.9	4489.5	4529.2	4529.2	4561.0	4537.1	4568.9	4612.6
5°	4580.8	4485.5	4537.1	4561.0	4549.1	4568.9	4537.1	4616.5	4564.9	4648.3
7.5°	4616.5	4652.3	4695.9	4656.2	4692.0	4672.1	4676.1	4664.2	4636.4	4703.9
10°	4878.5	4826.9	4926.2	4866.6	4858.7	4850.7	4834.9	4775.3	4842.8	4846.8
12.5°	5180.2	5132.6	5128.6	5081.0	5144.5	5029.4	5053.2	5021.4	5033.3	5049.2
15°	5398.5	5378.7	5470.0	5414.4	5331.0	5279.4	5335.0	5247.7	5291.4	5283.4
17.5°	5831.2	5827.2	5759.8	5668.5	5620.8	5545.4	5533.5	5497.8	5529.5	5513.6
20°	6132.9	6176.6	6188.5	6081.3	5898.7	5815.3	5795.5	5767.7	5803.4	5791.5
22.5°	6593.4	6525.9	6577.5	6390.9	6323.4	6124.9	6053.5	6013.8	6184.5	6140.8
25°	6887.1	6958.5	6906.9	6843.4	6692.6	6446.5	6394.9	6482.2	6549.7	6502.1
27.5°	7550.0	7478.5	7430.9	7240.4	7141.1	6883.1	6823.6	6791.8	6807.7	6835.5
30°	8054.1	8093.8	7986.6	7851.7	7601.6	7339.6	7200.7	7172.9	7117.3	7069.7
32.5°	8772.6	8713.1	8649.6	8562.2	8347.9	8002.5	7867.6	7764.4	7597.6	7375.3
35°	9118.0	9288.6	9241.0	9006.8	8844.1	8713.1	8673.4	8514.6	8375.7	8026.3
37.5°	9693.5	9765.0	9697.5	9622.1	9546.7	9407.7	9360.1	9403.8	9129.9	8554.3
40°	10066.7	10217.5	10356.4	10146.1	10130.2	10158.0	9864.2	9812.6	9248.9	8947.3
42.5°	10828.8	10892.3	10920.1	10912.2	11003.5	11003.5	10443.8	10332.6	9931.7	9685.6
45°	11837.1	11888.7	11987.9	12059.4	11956.2	12007.8	11209.9	11166.2	10809.0	10761.3
47.5°	12710.4	12833.4	13055.7	13266.1	13401.1	13226.4	12353.1	12043.5	11952.2	12238.0
50°	13472.5	13325.6	13845.6	14060.0	14651.4	14941.2	13615.4	13492.4	13345.5	13893.3
52.5°	13547.9	13746.4	14480.8	14909.5	16128.1	16664.0	15163.5	15111.9	14933.3	15564.4
55°	14087.8	14064.0	14802.3	15731.2	17180.0	18081.1	17180.0	17148.3	16759.3	17358.7
57.5°	13996.5	14238.6	14822.1	16120.2	18128.7	19601.4	19518.1	19299.7	18755.9	19244.2
60°	13686.9	13750.4	14460.9	16108.3	18680.5	21161.4	22042.7	22086.3	20974.9	21363.9
62.5°	11932.3	12079.2	12980.3	14842.0	18287.5	22237.2	24507.7	24352.9	23463.8	23019.2
65°	9491.1	9344.2	10281.0	12293.6	15842.3	21475.0	25587.4	26163.0	24765.8	23952.0
67.5°	5819.3	5783.6	6684.6	8459.0	11852.9	18275.6	24726.1	25174.6	24404.5	23753.5
70°	2997.0	2905.7	3469.3	4719.7	7450.8	13409.0	21518.7	21959.3	22693.7	21304.3
72.5°	1397.3	1377.4	1679.1	2322.2	3794.8	7883.4	16664.0	16981.5	18529.7	17962.0
75°	821.7	833.6	1004.3	1214.7	1849.8	3715.5	11059.0	11674.3	13353.4	12944.6
77.5°	615.3	615.3	714.5	845.5	1079.7	1437.0	5458.1	6271.8	7808.0	7022.1
80°	452.5	460.5	547.8	635.1	750.2	742.3	2167.4	2540.5	3580.5	3060.5
82.5°	353.3	365.2	424.7	472.4	527.9	448.6	889.2	956.7	1472.7	1171.0
85°	246.1	254.0	333.4	321.5	321.5	250.1	369.2	389.0	583.5	555.7
87.5°	59.5	67.5	162.7	178.6	135.0	75.4	115.1	131.0	210.4	242.1
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°
4553.0	0°	4553.0	4553.0	4553.0	4553.0	4553.0	4553.0	4553.0	4553.0	4553.0	4553.0
4632.4	2.5°	4572.9	4588.7	4656.2	4620.5	4640.4	4557.0	4624.5	4568.9	4616.5	4592.7
4668.1	5°	4699.9	4664.2	4703.9	4676.1	4676.1	4707.8	4755.5	4719.7	4791.2	4759.4
4695.9	7.5°	4751.5	4755.5	4779.3	4783.3	4763.4	4862.6	4866.6	4854.7	4922.2	4906.3
4886.5	10°	4878.5	4882.5	4926.2	4950.0	4930.1	4965.9	4926.2	4894.4	4890.4	4874.6
5037.3	12.5°	5081.0	5120.7	5112.7	5132.6	5136.5	4985.7	4894.4	4739.6	4719.7	4739.6
5259.6	15°	5267.5	5251.7	5259.6	5299.3	5132.6	4890.4	4727.7	4596.7	4604.6	4608.6
5549.4	17.5°	5489.8	5501.7	5513.6	5331.0	5025.4	4739.6	4596.7	4596.7	4557.0	4572.9
5751.8	20°	5743.9	5696.2	5593.0	5335.0	4838.8	4564.9	4521.3	4521.3	4473.6	4441.9
5970.1	22.5°	5942.4	5847.1	5692.3	5212.0	4672.1	4497.5	4390.3	4314.9	4259.3	4195.8
6212.3	25°	6069.4	6017.8	5716.1	5084.9	4549.1	4318.8	4160.0	4044.9	3973.5	3890.1
6402.8	27.5°	6263.9	6164.6	5783.6	4938.1	4414.1	4140.2	3894.1	3715.5	3580.5	3493.2
6692.6	30°	6525.9	6383.0	5735.9	4727.7	4207.7	3830.6	3540.8	3310.6	3155.8	3084.3
6966.5	32.5°	6740.2	6553.7	5696.2	4537.1	3977.4	3517.0	3131.9	2897.7	2810.4	2719.1
7426.9	35°	7149.1	6779.9	5668.5	4430.0	3771.0	3203.4	2798.5	2596.1	2484.9	2349.9
7700.8	37.5°	7462.7	7172.9	5601.0	4207.7	3505.1	2897.7	2544.5	2361.9	2195.1	2052.2
8336.0	40°	7954.9	7720.7	5604.9	3894.1	3191.5	2635.8	2346.0	2155.4	1945.1	1822.0
9276.7	42.5°	8879.8	8260.5	5628.8	3644.0	2838.2	2421.4	2167.4	1941.1	1730.7	1627.5
10348.5	45°	10015.1	9002.8	5481.9	3417.7	2477.0	2219.0	1953.0	1726.7	1591.8	1516.4
11805.3	47.5°	11321.0	9729.3	5283.4	2993.0	2175.3	2004.6	1754.5	1623.5	1524.3	1480.6
13682.9	50°	12781.8	10769.3	5227.8	2604.0	1941.1	1822.0	1659.3	1560.0	1492.5	1440.9
15798.6	52.5°	14663.4	11980.0	5116.7	2203.1	1738.6	1675.1	1623.5	1556.0	1496.5	1452.8
17771.5	55°	16461.5	13321.7	4997.6	1873.6	1595.7	1603.7	1631.5	1571.9	1520.3	1452.8
19982.5	57.5°	18486.0	14691.1	4557.0	1631.5	1488.6	1568.0	1623.5	1556.0	1504.4	1452.8
22245.1	60°	19736.4	15461.2	3695.6	1421.1	1393.3	1500.5	1575.9	1504.4	1448.9	1468.7
23285.1	62.5°	20244.5	15056.3	2786.6	1290.1	1325.8	1409.2	1500.5	1472.7	1433.0	1508.4
23273.2	65°	19379.1	14123.5	1992.7	1178.9	1234.5	1317.9	1433.0	1464.7	1476.7	1623.5
21375.8	67.5°	17243.5	12297.5	1464.7	1087.6	1139.2	1262.3	1480.6	1532.2	1524.3	1706.9
17938.2	70°	13798.0	9618.1	1143.2	1012.2	1103.5	1306.0	1548.1	1548.1	1492.5	1706.9
13682.9	72.5°	10038.9	6779.9	984.4	924.9	1012.2	1198.8	1540.2	1536.2	1464.7	1560.0
8713.1	75°	6077.3	3945.7	869.3	837.6	869.3	1028.1	1472.7	1448.9	1349.6	1341.7
4191.8	77.5°	3028.7	1984.8	710.5	742.3	758.2	861.4	1294.1	1329.8	1194.8	1163.1
1655.3	80°	1278.2	865.4	591.5	639.1	639.1	726.4	1075.7	1099.6	992.4	932.8
655.0	82.5°	583.5	496.2	504.1	555.7	520.0	563.7	853.4	881.2	805.8	706.6
277.9	85°	246.1	281.8	385.0	436.6	385.0	365.2	587.5	619.2	524.0	436.6
119.1	87.5°	111.1	154.8	242.1	317.6	194.5	170.7	313.6	325.5	262.0	194.5
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





<u>180°</u>
4553.0
4549.1
4715.8
4882.5
4874.6
4747.5
4664.2
4576.8
4394.2
4160.0
3906.0
3532.9
3124.0
2715.1
2338.0
2056.2
1833.9
1635.4
1532.2
1472.7
1448.9
1448.9
1448.9
1448.9
1452.8
1488.6
1623.5
1718.8
1671.2
1504.4
1325.8
1143.2
913.0
690.7
440.6
182.6
0.0

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