

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: P477680

Luminaire Tested: **IFLD-L-SA8B-727-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477680
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-727-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens
Light Source: (128) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

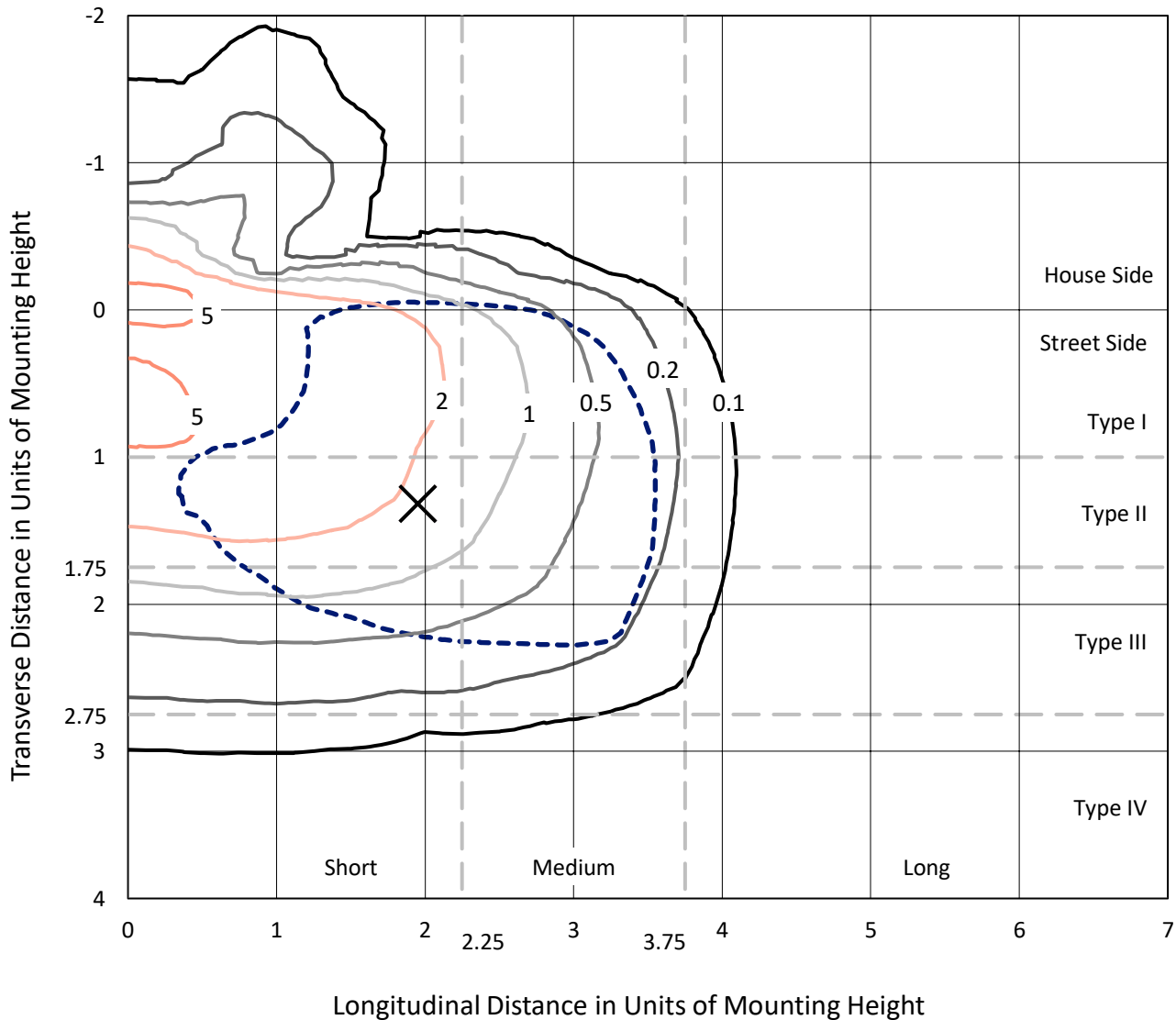
Lumens per Lamp: N/A
Luminaire Lumens: 33433.8 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 320
Input Voltage (V): 120
Input Current (A_{in}): 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

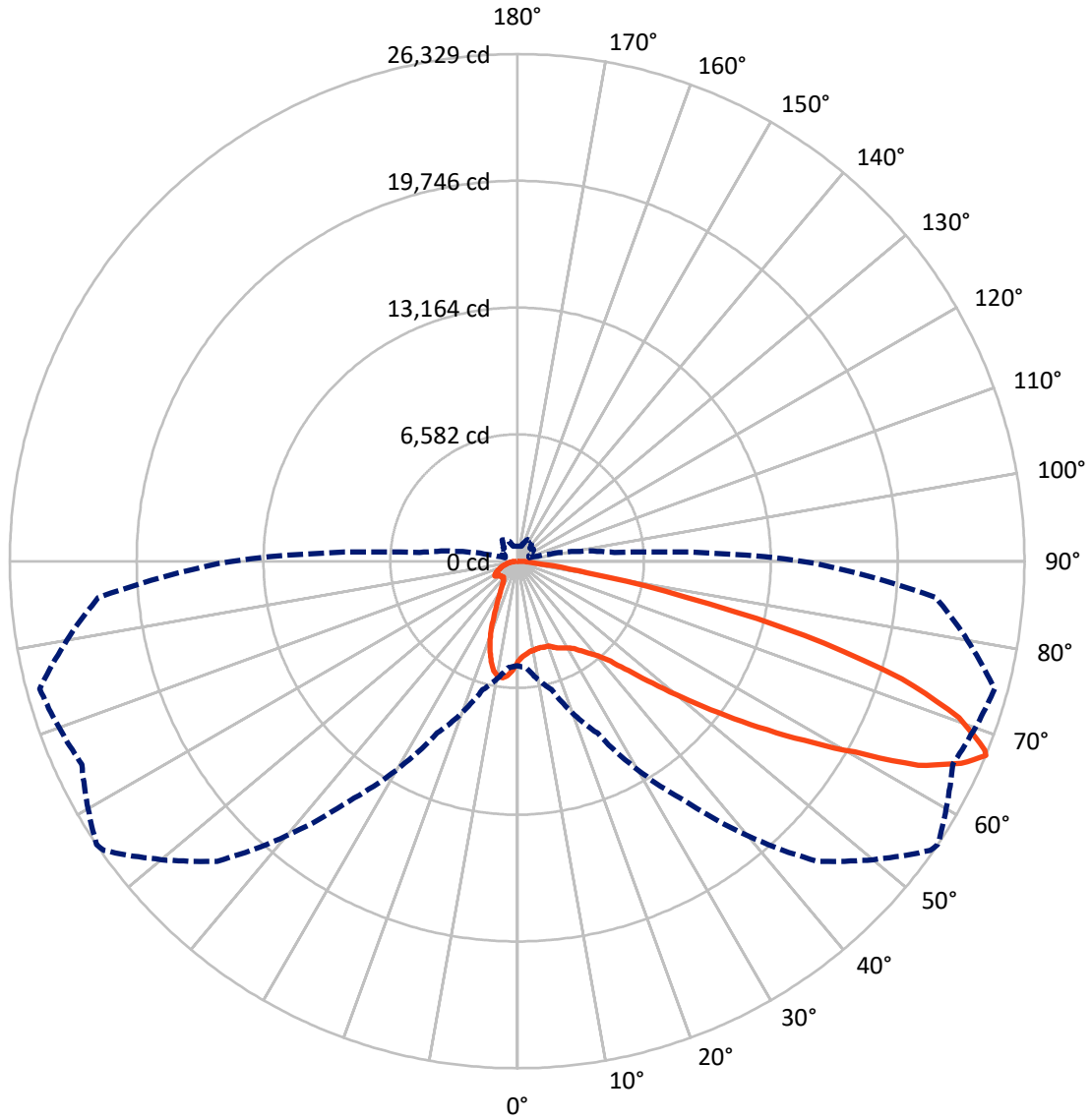
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.4 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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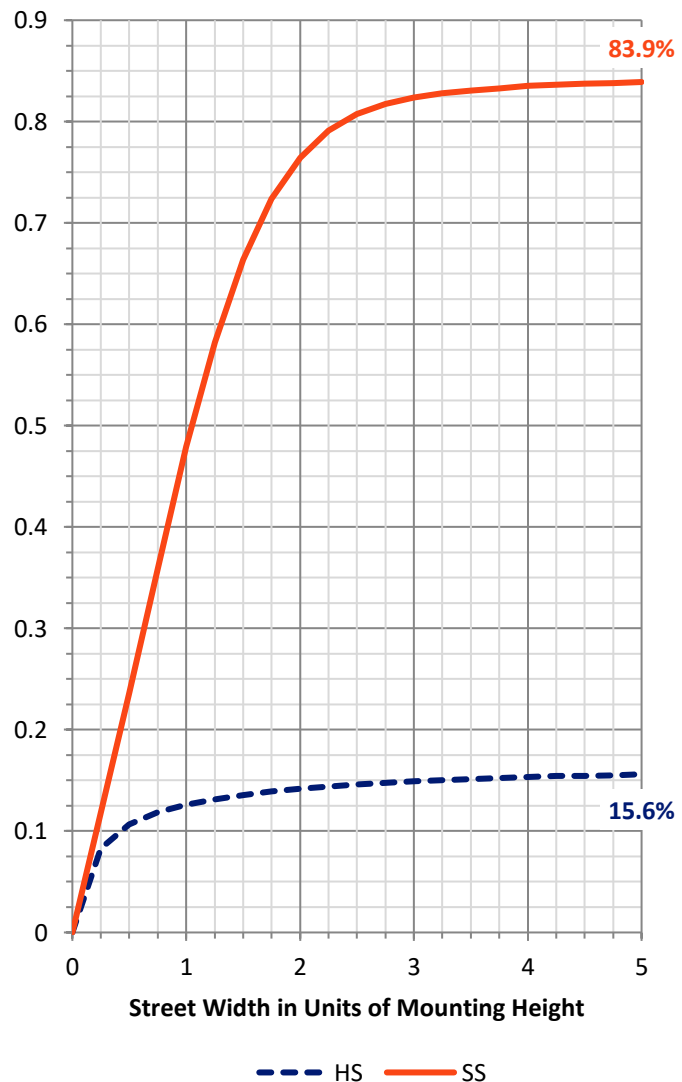
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5292.9	0.0	5292.9
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	28140.9	0.0	28140.9
	% Fixture	84.2	0.0	84.2
Total	Lumens	33433.8	0.0	33433.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	501.2	1.5
10°-20°	1367.2	4.1
20°-30°	2144.2	6.4
30°-40°	3060.9	9.2
40°-50°	4619.8	13.8
50°-60°	7354.0	22.0
60°-70°	9401.5	28.1
70°-80°	4583.9	13.7
80°-90°	401.0	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°	33433.8	100.0
0°-180°	33433.8	100.0

Coefficient of Utilization

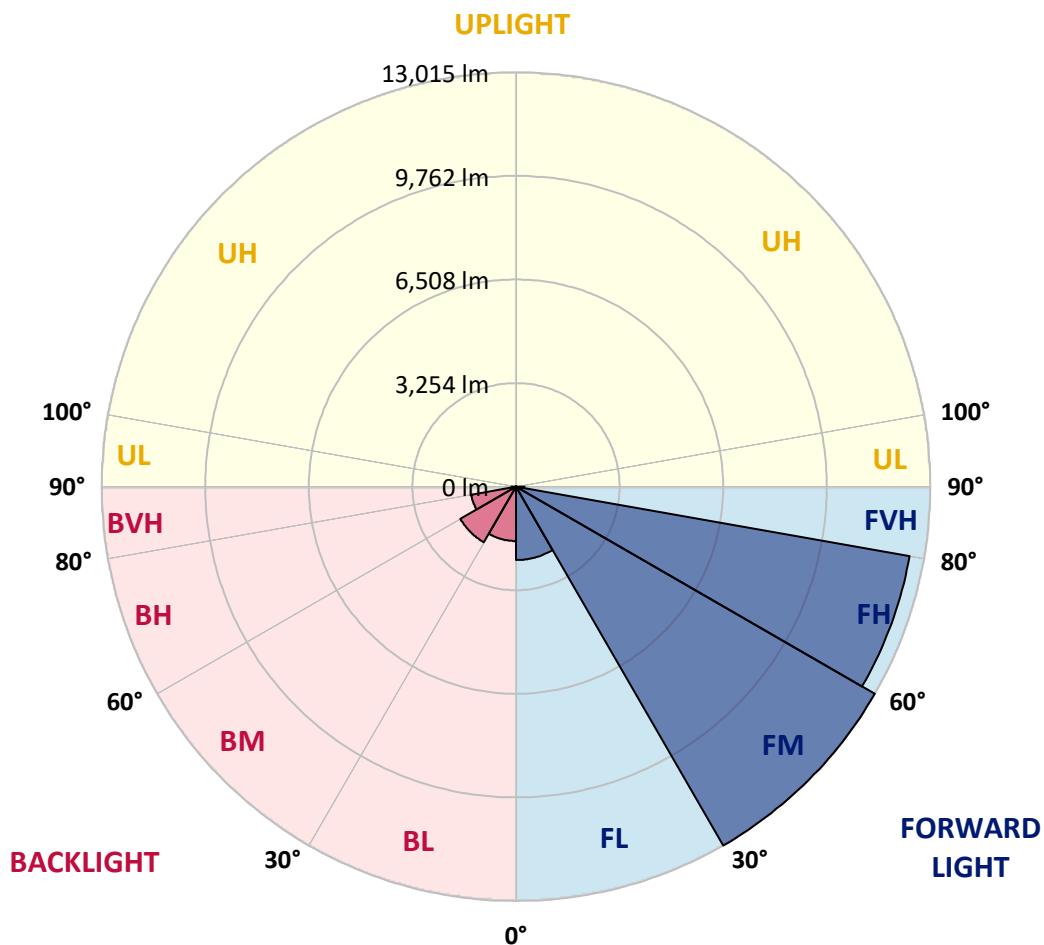


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2304.0	6.9			
FM (30°-60°)	13015.5	38.9			
FH (60°-80°)	12555.1	37.6			G5
FVH (80°-90°)	266.3	0.8			G3/500
BL (0°-30°)	1708.7	5.1	B3/2500		
BM (30°-60°)	2019.3	6.0	B2/2500		
BH (60°-80°)	1430.2	4.3	B3/2500		G3/2500
BVH (80°-90°)	134.7	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°	5202.2	5202.2	5202.2	5202.2	5202.2	5202.2	5202.2	5202.2	5202.2	5202.2
2.5°	4778.8	4759.2	4782.7	4759.2	4865.1	4927.8	4947.4	4974.8	5072.8	5166.9
5°	4578.9	4492.6	4586.7	4618.1	4625.9	4731.8	4841.5	4861.1	4912.1	5065.0
7.5°	4245.7	4343.7	4308.4	4402.5	4500.5	4606.3	4786.7	4735.7	4923.9	5068.9
10°	4175.1	4182.9	4222.1	4257.4	4343.7	4480.9	4731.8	4700.4	4892.5	5202.2
12.5°	4245.7	4245.7	4233.9	4206.5	4304.5	4437.8	4637.7	4653.4	4955.2	5241.4
15°	4492.6	4539.7	4414.2	4433.8	4394.6	4437.8	4614.2	4649.4	4978.7	5272.8
17.5°	5096.4	5080.7	4931.7	4723.9	4551.4	4524.0	4645.5	4684.7	4955.2	5362.9
20°	5684.4	5653.0	5394.3	5178.7	4837.6	4676.9	4696.5	4700.4	4994.4	5421.7
22.5°	6339.1	6421.4	6139.2	5700.1	5276.7	4876.8	4798.4	4861.1	5084.6	5453.1
25°	7366.2	7189.8	6946.7	6370.4	5688.3	5186.5	4967.0	4998.4	5170.8	5531.5
27.5°	8107.1	8036.6	7656.3	7189.8	6264.6	5429.6	5057.2	5116.0	5327.7	5527.6
30°	8820.6	8820.6	8589.3	7891.5	6872.2	5837.3	5249.2	5221.8	5253.2	5519.7
32.5°	9655.6	9541.9	9208.7	8746.1	7636.7	6209.7	5402.1	5410.0	5410.0	5664.8
35°	10094.7	10279.0	10055.5	9302.8	8220.8	6829.1	5770.6	5711.8	5668.7	5825.5
37.5°	10737.6	10847.4	10612.2	10169.2	8946.1	7330.9	6096.0	6049.0	5798.1	5951.0
40°	11125.7	11106.1	11098.3	10894.4	9906.5	7922.9	6574.3	6452.8	6115.6	6394.0
42.5°	11345.3	11306.1	11788.3	11662.8	10812.1	8793.2	7174.1	7107.5	6735.0	7181.9
45°	11592.3	11882.4	12278.3	12631.1	11866.7	10016.3	8189.5	8095.4	7762.1	8330.6
47.5°	11807.9	12164.6	12670.3	13046.7	12819.3	11345.3	9443.9	9467.5	9247.9	9832.0
50°	12168.5	12203.8	12889.9	13650.4	13826.8	12572.3	11129.7	11090.5	10992.5	11811.8
52.5°	12058.8	12164.6	13031.0	14003.2	14293.3	13869.9	12940.8	13058.4	12929.1	13960.1
55°	10271.1	10588.7	12944.7	14375.6	15398.8	15336.1	15269.5	15191.1	15183.2	16375.0
57.5°	9459.6	9718.4	11404.1	14787.3	16582.8	17045.4	17476.6	17562.8	17558.9	18997.7
60°	8926.5	9193.0	10780.8	14563.8	17590.3	19283.8	20111.0	20122.8	20099.2	21800.6
62.5°	7883.7	8142.4	9702.7	13340.7	17868.6	21349.8	23192.3	23345.2	22267.2	24215.5
65°	6629.2	6840.9	8216.9	11470.7	17127.7	22663.1	25509.2	25328.9	24094.0	25595.5
67°	5421.7	5562.9	6903.6	9847.7	15191.1	22031.9	26179.6	26328.6	24936.9	25654.3
67.5°	5076.8	5206.1	6472.4	9295.0	14454.1	21553.7	26203.1	26179.6	24952.5	25666.0
70°	3524.3	3579.2	4410.3	6394.0	10647.5	18209.7	24290.0	24344.9	23905.8	24274.3
72.5°	2336.5	2418.8	2948.0	4030.0	6276.4	13250.5	20303.1	20891.1	20612.8	19903.2
75°	1505.4	1552.4	1928.8	2399.2	3089.2	7546.5	14999.0	15391.0	14752.0	12309.7
77.5°	842.9	893.8	1164.3	1458.3	1505.4	3140.1	8424.7	8910.8	7550.4	5229.6
80°	525.3	592.0	878.1	866.4	717.4	1152.6	3473.4	3720.3	3018.6	1799.4
82.5°	395.9	446.9	678.2	607.6	403.8	513.6	1301.5	1395.6	1105.5	693.9
85°	270.5	341.1	490.0	376.3	211.7	247.0	517.5	556.7	505.7	337.1
87.5°	98.0	145.1	254.8	188.2	94.1	74.5	168.6	188.2	180.3	152.9
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°
5202.2	0°	5202.2	5202.2	5202.2	5202.2	5202.2	5202.2	5202.2	5202.2	5202.2	5202.2
5249.2	2.5°	5323.7	5378.6	5406.1	5566.8	5633.4	5621.7	5637.4	5660.9	5684.4	5715.8
5315.9	5°	5366.9	5535.4	5625.6	5813.8	5939.2	5884.3	5954.9	5935.3	5907.9	5903.9
5437.4	7.5°	5508.0	5723.6	5994.1	6045.1	6099.9	5962.7	5845.1	5684.4	5645.2	5508.0
5539.3	10°	5758.9	5935.3	6264.6	6284.2	6041.1	5688.3	5425.7	5092.4	5088.5	4888.6
5696.2	12.5°	5998.0	6198.0	6464.5	6350.8	5770.6	5288.5	4861.1	4496.6	4343.7	4241.7
5790.2	15°	6147.0	6476.3	6617.4	6127.4	5296.3	4645.5	4092.8	3700.7	3543.9	3469.4
5907.9	17.5°	6284.2	6742.9	6680.1	5735.4	4712.2	3983.0	3324.4	2983.3	2940.2	2885.3
6096.0	20°	6472.4	6840.9	6456.7	5225.7	4049.6	3128.4	2708.9	2544.3	2583.5	2607.0
6115.6	22.5°	6648.8	6891.8	6174.4	4669.0	3198.9	2477.6	2269.8	2305.1	2363.9	2442.3
6162.7	25°	6727.2	6974.2	5794.2	3900.7	2434.5	2085.6	2038.5	2097.3	2195.4	2199.3
6229.3	27.5°	6778.2	6915.4	5335.5	3151.9	1924.9	1822.9	1893.5	1936.6	1948.4	1995.4
6370.4	30°	6868.3	6793.8	4755.3	2254.2	1615.2	1619.1	1709.2	1709.2	1709.2	1744.5
6511.6	32.5°	7025.1	6711.5	4077.1	1646.5	1391.7	1517.1	1493.6	1485.8	1470.1	1427.0
6691.9	35°	7123.1	6488.1	3218.5	1219.2	1250.6	1391.7	1383.9	1262.3	1058.5	956.5
7150.6	37.5°	7327.0	6374.4	2367.8	940.9	1168.2	1329.0	1285.9	991.8	768.4	670.4
7719.0	40°	7766.1	6299.9	1638.7	823.3	1113.4	1297.6	1148.6	846.8	588.0	415.5
8597.2	42.5°	8303.1	6303.8	1113.4	776.2	1117.3	1364.3	1105.5	725.3	415.5	333.2
9769.3	45°	9024.5	6245.0	764.5	776.2	1187.8	1474.0	1133.0	658.6	403.8	423.4
11239.4	47.5°	9800.7	6296.0	568.4	705.6	1199.6	1477.9	1035.0	646.8	388.1	490.0
12838.9	50°	10706.3	6346.9	470.4	650.8	1203.5	1430.9	952.6	631.2	403.8	517.5
14673.6	52.5°	11639.3	6507.7	399.9	615.5	1250.6	1411.3	952.6	654.7	403.8	450.8
17010.1	55°	13031.0	6919.3	576.3	768.4	1423.1	1540.7	1172.2	917.3	564.5	580.2
19248.5	57.5°	14567.7	7342.7	642.9	807.6	1462.3	1387.8	1262.3	1011.4	595.9	599.8
20989.2	60°	15579.2	7358.4	639.0	788.0	1368.2	1199.6	1234.9	1066.3	607.6	513.6
22067.2	62.5°	15983.0	6880.1	666.4	788.0	1274.1	1121.2	1266.2	1148.6	627.2	642.9
22373.0	65°	15524.3	5892.2	642.9	705.6	1121.2	1003.6	1274.1	1164.3	686.0	646.8
21824.2	67°	14806.9	5076.8	654.7	670.4	1042.8	952.6	1340.7	1223.1	795.8	776.2
21538.0	67.5°	14603.0	4861.1	650.8	650.8	1015.4	936.9	1356.4	1223.1	811.5	803.7
19009.4	70°	12870.3	3939.9	666.4	642.9	897.7	889.9	1442.7	1289.8	933.0	940.9
13964.0	72.5°	9796.8	2987.2	662.5	642.9	780.1	850.7	1454.4	1332.9	1015.4	940.9
7820.9	75°	5566.8	1787.6	584.1	560.6	615.5	740.9	1360.3	1270.2	987.9	842.9
3124.5	77.5°	2301.2	921.3	537.1	505.7	509.6	603.7	1133.0	1183.9	940.9	717.4
1042.8	80°	858.5	552.8	431.2	403.8	392.0	443.0	807.6	944.8	803.7	588.0
458.7	82.5°	446.9	345.0	294.0	294.0	266.6	282.3	435.2	627.2	607.6	403.8
184.3	85°	227.4	196.0	168.6	164.7	149.0	133.3	219.5	372.4	348.9	223.5
82.3	87.5°	121.5	109.8	70.6	66.6	54.9	35.3	39.2	74.5	121.5	98.0
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



<u>180°</u>
5202.2
5747.1
5939.2
5555.0
4880.7
4218.2
3453.8
2912.8
2579.5
2399.2
2238.5
2038.5
1783.7
1403.5
1003.6
666.4
403.8
325.4
431.2
544.9
599.8
462.6
611.6
580.2
529.2
650.8
635.1
764.5
788.0
870.3
835.0
752.7
678.2
537.1
317.5
184.3
70.6
0.0

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