

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: P477718

Luminaire Tested: **IFLD-L-SA8A-730-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477718
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-730-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

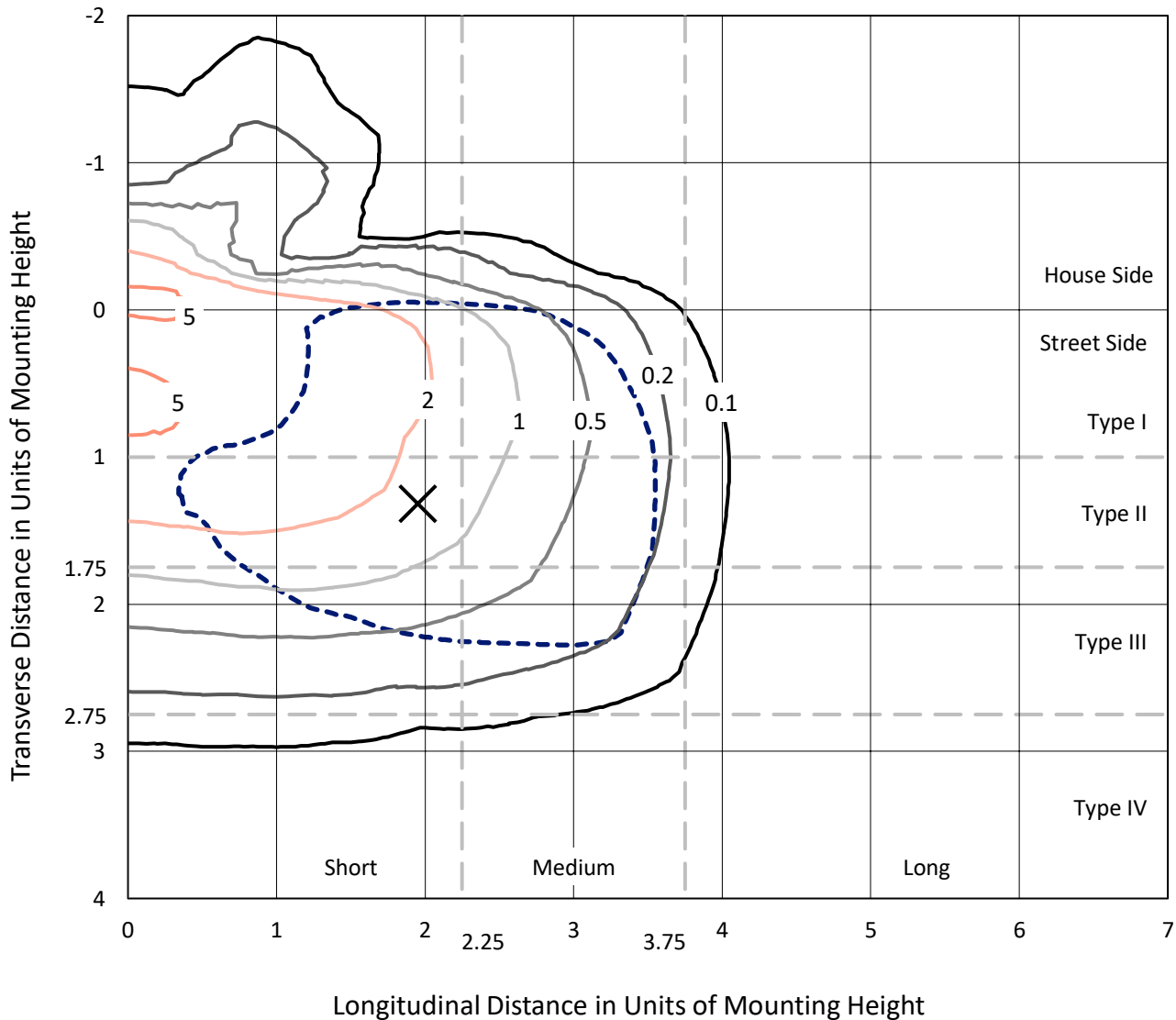
Lumens per Lamp: N/A
Luminaire Lumens: 30641.5 lumens
Efficiency: N/A
Efficacy: 123.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 247.8
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

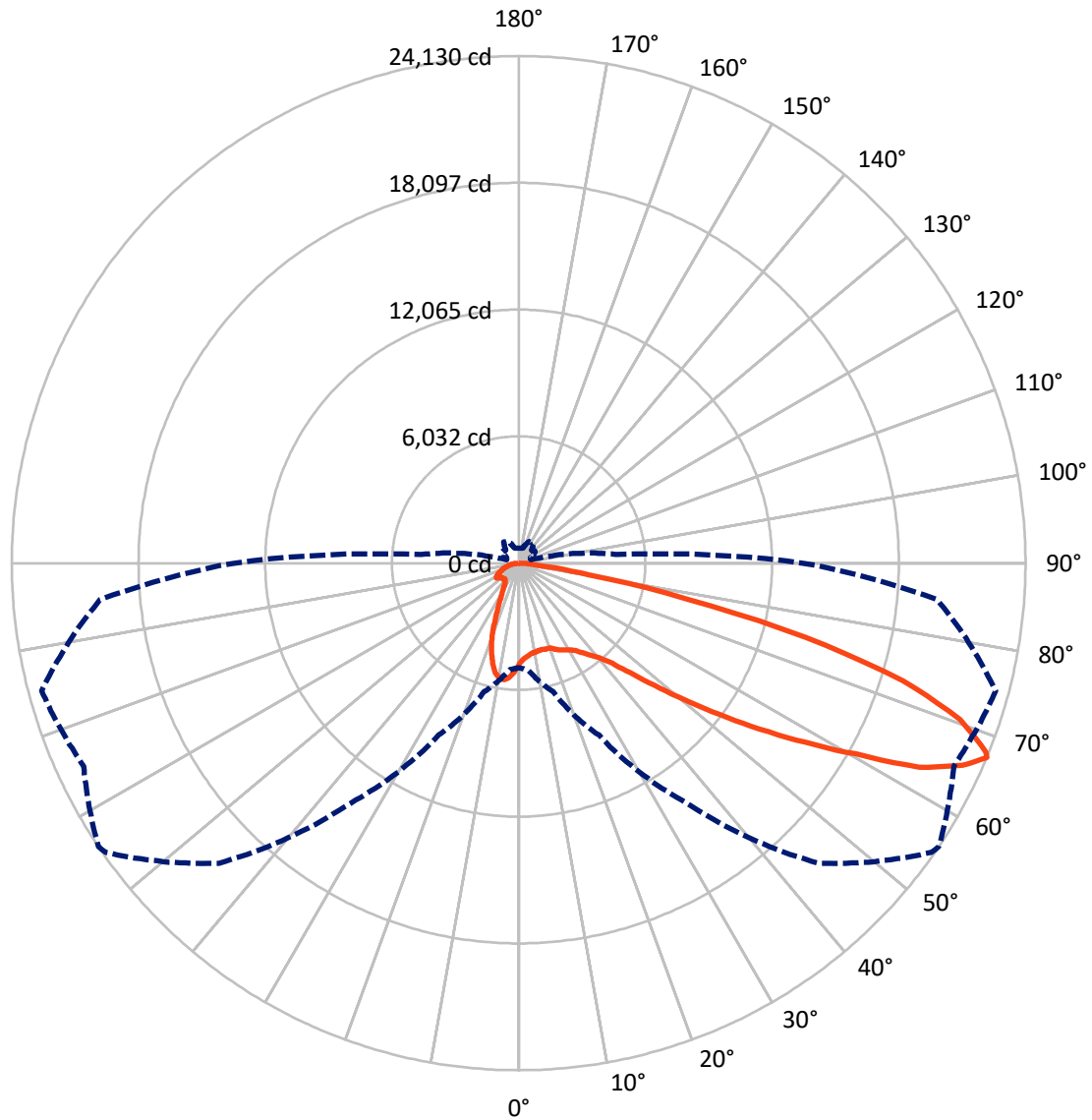
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.9 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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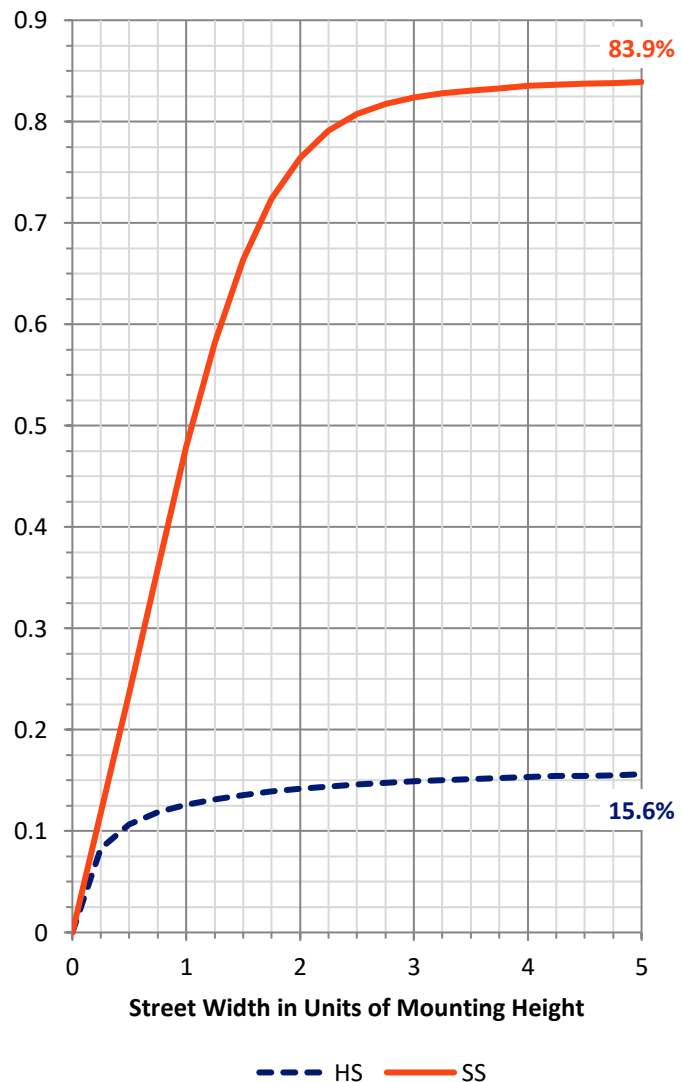
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4850.9	0.0	4850.9
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	25790.7	0.0	25790.7
	% Fixture	84.2	0.0	84.2
Total	Lumens	30641.5	0.0	30641.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	459.3	1.5
10°-20°	1253.1	4.1
20°-30°	1965.2	6.4
30°-40°	2805.3	9.2
40°-50°	4234.0	13.8
50°-60°	6739.8	22.0
60°-70°	8616.3	28.1
70°-80°	4201.0	13.7
80°-90°	367.5	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°	30641.5	100.0
0°-180°	30641.5	100.0

Coefficient of Utilization

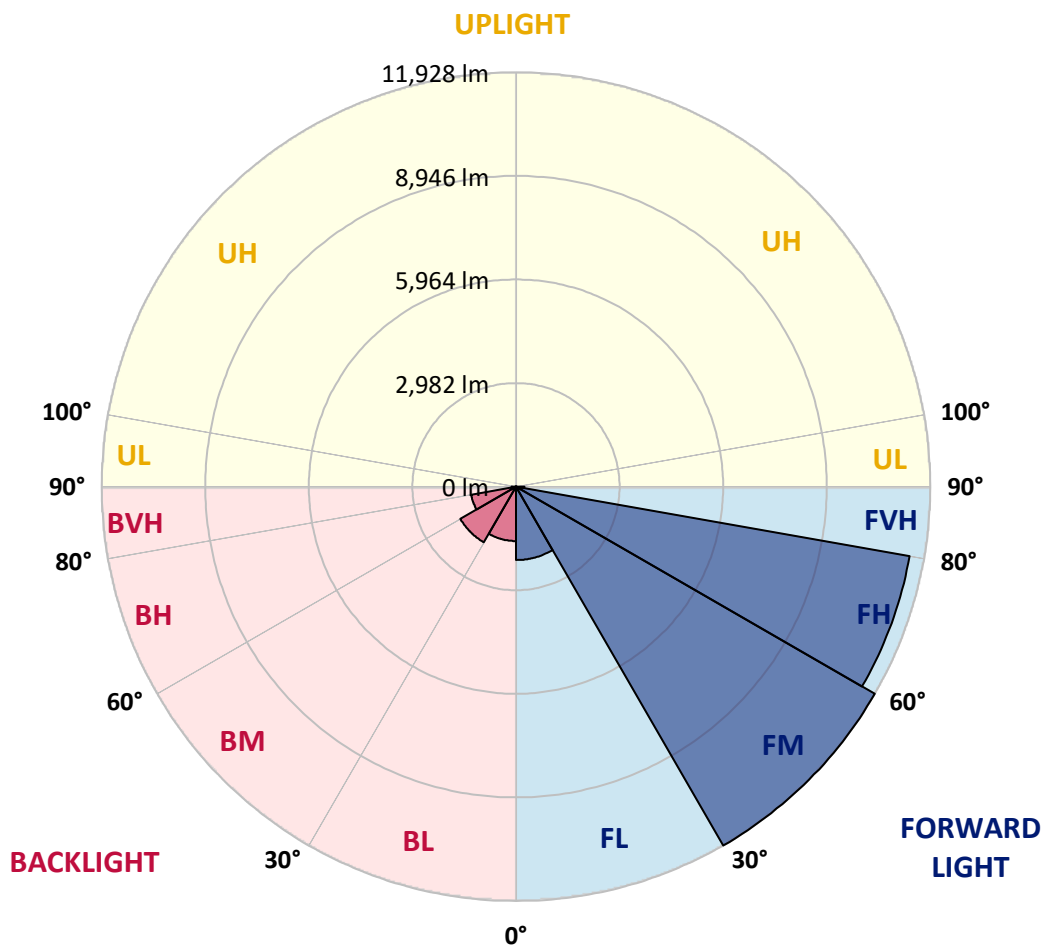


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2111.5	6.9			
FM (30°-60°)	11928.5	38.9			
FH (60°-80°)	11506.6	37.6			G4/12000
FVH (80°-90°)	244.1	0.8			G3/500
BL (0°-30°)	1566.0	5.1	B3/2500		
BM (30°-60°)	1850.7	6.0	B2/2500		
BH (60°-80°)	1310.8	4.3	B3/2500		G3/2500
BVH (80°-90°)	123.4	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-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	4767.7	4767.7	4767.7	4767.7	4767.7	4767.7	4767.7	4767.7	4767.7	4767.7
2.5°	4379.7	4361.7	4383.3	4361.7	4458.8	4516.2	4534.2	4559.4	4649.2	4735.4
5°	4196.5	4117.4	4203.7	4232.4	4239.6	4336.6	4437.2	4455.2	4501.9	4642.0
7.5°	3891.1	3980.9	3948.6	4034.8	4124.6	4221.6	4386.9	4340.2	4512.6	4645.6
10°	3826.4	3833.6	3869.5	3901.9	3980.9	4106.6	4336.6	4307.8	4483.9	4767.7
12.5°	3891.1	3891.1	3880.3	3855.1	3945.0	4067.1	4250.4	4264.7	4541.4	4803.7
15°	4117.4	4160.5	4045.6	4063.5	4027.6	4067.1	4228.8	4261.1	4562.9	4832.4
17.5°	4670.7	4656.4	4519.8	4329.4	4171.3	4146.2	4257.5	4293.5	4541.4	4915.0
20°	5209.7	5180.9	4943.8	4746.2	4433.6	4286.3	4304.3	4307.8	4577.3	4968.9
22.5°	5809.7	5885.1	5626.4	5224.0	4836.0	4469.5	4397.7	4455.2	4660.0	4997.7
25°	6751.0	6589.3	6366.6	5838.4	5213.3	4753.4	4552.2	4580.9	4739.0	5069.5
27.5°	7430.1	7365.4	7016.9	6589.3	5741.4	4976.1	4634.8	4688.7	4882.7	5065.9
30°	8084.0	8084.0	7872.0	7232.4	6298.3	5349.8	4810.9	4785.7	4814.4	5058.8
32.5°	8849.2	8745.0	8439.6	8015.7	6998.9	5691.1	4951.0	4958.2	4958.2	5191.7
35°	9251.6	9420.5	9215.7	8525.9	7534.2	6258.8	5288.7	5234.8	5195.3	5339.0
37.5°	9840.9	9941.5	9725.9	9319.9	8198.9	6718.7	5586.9	5543.8	5313.9	5454.0
40°	10196.6	10178.6	10171.4	9984.6	9079.2	7261.2	6025.2	5913.9	5604.9	5860.0
42.5°	10397.8	10361.8	10803.8	10688.8	9909.1	8058.8	6574.9	6513.9	6172.5	6582.1
45°	10624.1	10890.0	11252.9	11576.2	10875.6	9179.8	7505.5	7419.3	7113.9	7634.8
47.5°	10821.7	11148.7	11612.2	11957.1	11748.7	10397.8	8655.2	8676.8	8475.6	9010.9
50°	11152.3	11184.6	11813.4	12510.4	12672.0	11522.3	10200.2	10164.2	10074.4	10825.3
52.5°	11051.7	11148.7	11942.7	12833.7	13099.6	12711.6	11860.1	11967.8	11849.3	12794.2
55°	9413.3	9704.3	11863.7	13175.0	14112.8	14055.3	13994.2	13922.4	13915.2	15007.4
57.5°	8669.6	8906.7	10451.7	13552.3	15197.8	15621.8	16017.0	16096.1	16092.5	17411.0
60°	8181.0	8425.3	9880.4	13347.5	16121.2	17673.3	18431.4	18442.2	18420.6	19979.9
62.5°	7225.3	7462.4	8892.4	12226.5	16376.3	19566.8	21255.4	21395.5	20407.5	22193.2
65°	6075.5	6269.6	7530.7	10512.7	15697.2	20770.4	23378.8	23213.5	22081.8	23457.8
67°	4968.9	5098.3	6327.0	9025.3	13922.4	20191.9	23993.2	24129.7	22854.2	23511.7
67.5°	4652.8	4771.3	5931.8	8518.7	13246.9	19753.6	24014.7	23993.2	22868.6	23522.5
70°	3230.0	3280.3	4042.0	5860.0	9758.2	16688.9	22261.4	22311.7	21909.3	22247.0
72.5°	2141.3	2216.8	2701.8	3693.5	5752.2	12143.9	18607.5	19146.4	18891.3	18241.0
75°	1379.7	1422.8	1767.7	2198.8	2831.2	6916.3	13746.3	14105.6	13520.0	11281.6
77.5°	772.5	819.2	1067.1	1336.5	1379.7	2877.9	7721.1	8166.6	6919.9	4792.9
80°	481.4	542.5	804.8	794.0	657.5	1056.3	3183.3	3409.6	2766.5	1649.1
82.5°	362.9	409.6	621.6	556.9	370.1	470.7	1192.8	1279.1	1013.2	635.9
85°	247.9	312.6	449.1	344.9	194.0	226.4	474.3	510.2	463.5	309.0
87.5°	89.8	132.9	233.5	172.5	86.2	68.3	154.5	172.5	165.3	140.1
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°
4767.7	0°	4767.7	4767.7	4767.7	4767.7	4767.7	4767.7	4767.7	4767.7	4767.7	4767.7
4810.9	2.5°	4879.1	4929.4	4954.6	5101.9	5163.0	5152.2	5166.5	5188.1	5209.7	5238.4
4871.9	5°	4918.6	5073.1	5155.8	5328.2	5443.2	5392.9	5457.6	5439.6	5414.5	5410.9
4983.3	7.5°	5048.0	5245.6	5493.5	5540.2	5590.5	5464.8	5357.0	5209.7	5173.7	5048.0
5076.7	10°	5277.9	5439.6	5741.4	5759.4	5536.6	5213.3	4972.5	4667.1	4663.5	4480.3
5220.4	12.5°	5497.1	5680.3	5924.6	5820.4	5288.7	4846.8	4455.2	4121.0	3980.9	3887.5
5306.7	15°	5633.6	5935.4	6064.8	5615.7	4854.0	4257.5	3751.0	3391.7	3248.0	3179.7
5414.5	17.5°	5759.4	6179.7	6122.2	5256.4	4318.6	3650.4	3046.8	2734.2	2694.7	2644.4
5586.9	20°	5931.8	6269.6	5917.5	4789.3	3711.4	2867.1	2482.7	2331.8	2367.7	2389.3
5604.9	22.5°	6093.5	6316.3	5658.8	4279.1	2931.8	2270.7	2080.3	2112.6	2166.5	2238.4
5648.0	25°	6165.4	6391.7	5310.3	3574.9	2231.2	1911.4	1868.3	1922.2	2012.0	2015.6
5709.1	27.5°	6212.1	6337.8	4889.9	2888.7	1764.1	1670.7	1735.4	1774.9	1785.7	1828.8
5838.4	30°	6294.7	6226.4	4358.1	2065.9	1480.3	1483.9	1566.5	1566.5	1566.5	1598.8
5967.8	32.5°	6438.4	6151.0	3736.6	1509.0	1275.5	1390.4	1368.9	1361.7	1347.3	1307.8
6133.0	35°	6528.2	5946.2	2949.7	1117.4	1146.1	1275.5	1268.3	1156.9	970.1	876.7
6553.4	37.5°	6715.1	5842.0	2170.1	862.3	1070.7	1218.0	1178.5	909.0	704.2	614.4
7074.4	40°	7117.5	5773.7	1501.8	754.5	1020.4	1189.2	1052.7	776.1	538.9	380.8
7879.2	42.5°	7609.7	5777.3	1020.4	711.4	1024.0	1250.3	1013.2	664.7	380.8	305.4
8953.4	45°	8270.8	5723.4	700.6	711.4	1088.6	1350.9	1038.3	603.6	370.1	388.0
10300.8	47.5°	8982.2	5770.1	521.0	646.7	1099.4	1354.5	948.5	592.8	355.7	449.1
11766.6	50°	9812.1	5816.9	431.1	596.4	1103.0	1311.4	873.1	578.5	370.1	474.3
13448.1	52.5°	10667.2	5964.2	366.5	564.1	1146.1	1293.4	873.1	600.0	370.1	413.2
15589.5	55°	11942.7	6341.4	528.2	704.2	1304.2	1412.0	1074.3	840.7	517.4	531.7
17641.0	57.5°	13351.1	6729.4	589.2	740.1	1340.1	1271.9	1156.9	927.0	546.1	549.7
19236.2	60°	14278.1	6743.8	585.6	722.2	1253.9	1099.4	1131.8	977.3	556.9	470.7
20224.3	62.5°	14648.1	6305.5	610.8	722.2	1167.7	1027.6	1160.5	1052.7	574.9	589.2
20504.5	65°	14227.8	5400.1	589.2	646.7	1027.6	919.8	1167.7	1067.1	628.8	592.8
20001.5	67°	13570.3	4652.8	600.0	614.4	955.7	873.1	1228.8	1121.0	729.4	711.4
19739.2	67.5°	13383.4	4455.2	596.4	596.4	930.6	858.7	1243.1	1121.0	743.7	736.5
17421.8	70°	11795.4	3610.8	610.8	589.2	822.8	815.6	1322.2	1182.1	855.1	862.3
12797.8	72.5°	8978.6	2737.8	607.2	589.2	715.0	779.7	1333.0	1221.6	930.6	862.3
7167.8	75°	5101.9	1638.3	535.3	513.8	564.1	679.1	1246.7	1164.1	905.4	772.5
2863.5	77.5°	2109.0	844.3	492.2	463.5	467.1	553.3	1038.3	1085.0	862.3	657.5
955.7	80°	786.8	506.6	395.2	370.1	359.3	406.0	740.1	865.9	736.5	538.9
420.4	82.5°	409.6	316.2	269.5	269.5	244.3	258.7	398.8	574.9	556.9	370.1
168.9	85°	208.4	179.6	154.5	150.9	136.5	122.2	201.2	341.3	319.8	204.8
75.5	87.5°	111.4	100.6	64.7	61.1	50.3	32.3	35.9	68.3	111.4	89.8
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>
4767.7
5267.1
5443.2
5091.1
4473.1
3865.9
3165.3
2669.5
2364.1
2198.8
2051.5
1868.3
1634.8
1286.2
919.8
610.8
370.1
298.2
395.2
499.4
549.7
424.0
560.5
531.7
485.0
596.4
582.0
700.6
722.2
797.6
765.3
689.8
621.6
492.2
291.0
168.9
64.7
0.0

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