

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: P477562

Luminaire Tested: **IFLD-L-SA8A-830-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477562
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-830-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (128) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

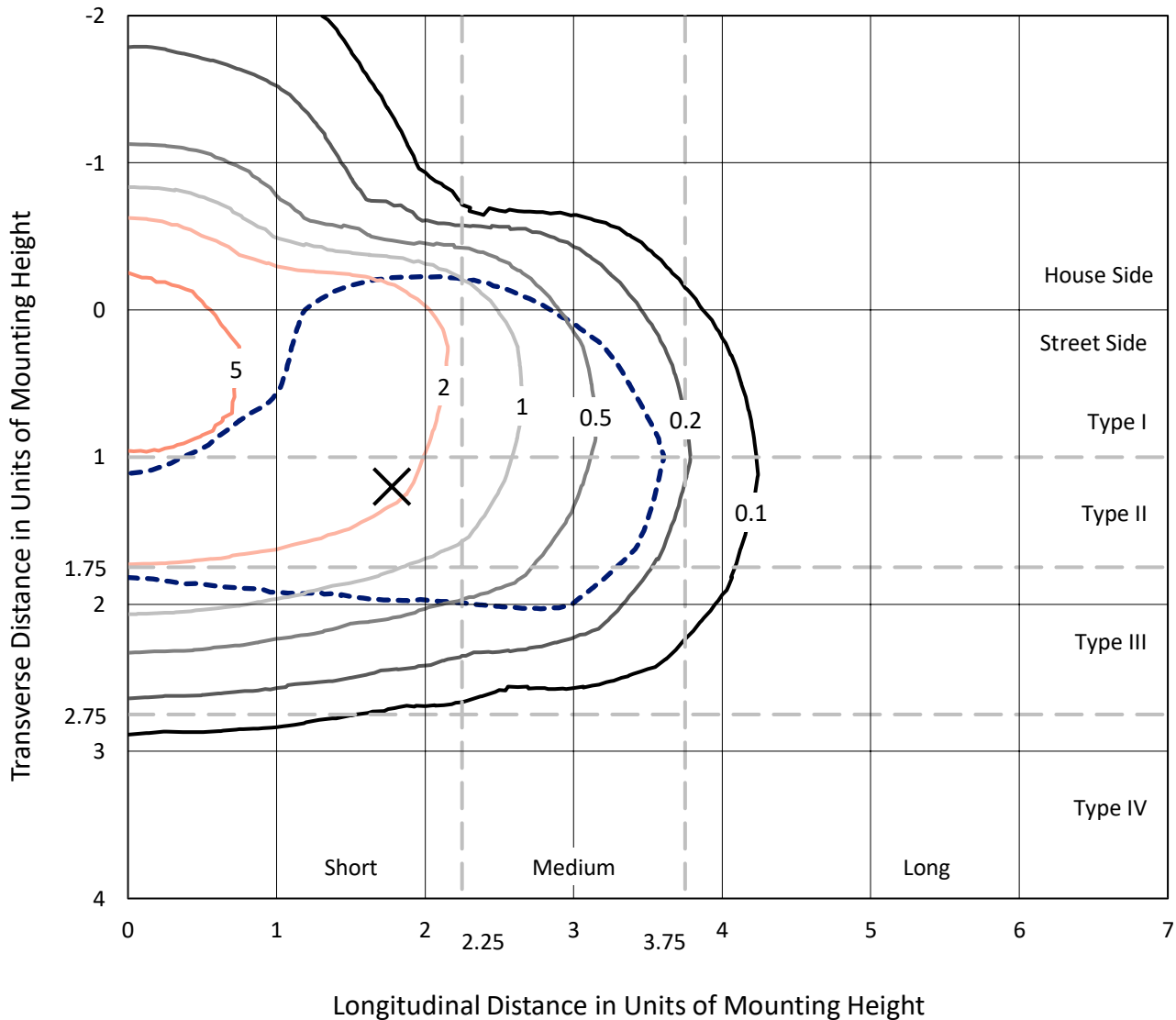
Lumens per Lamp: N/A
Luminaire Lumens: 27724.1 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 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

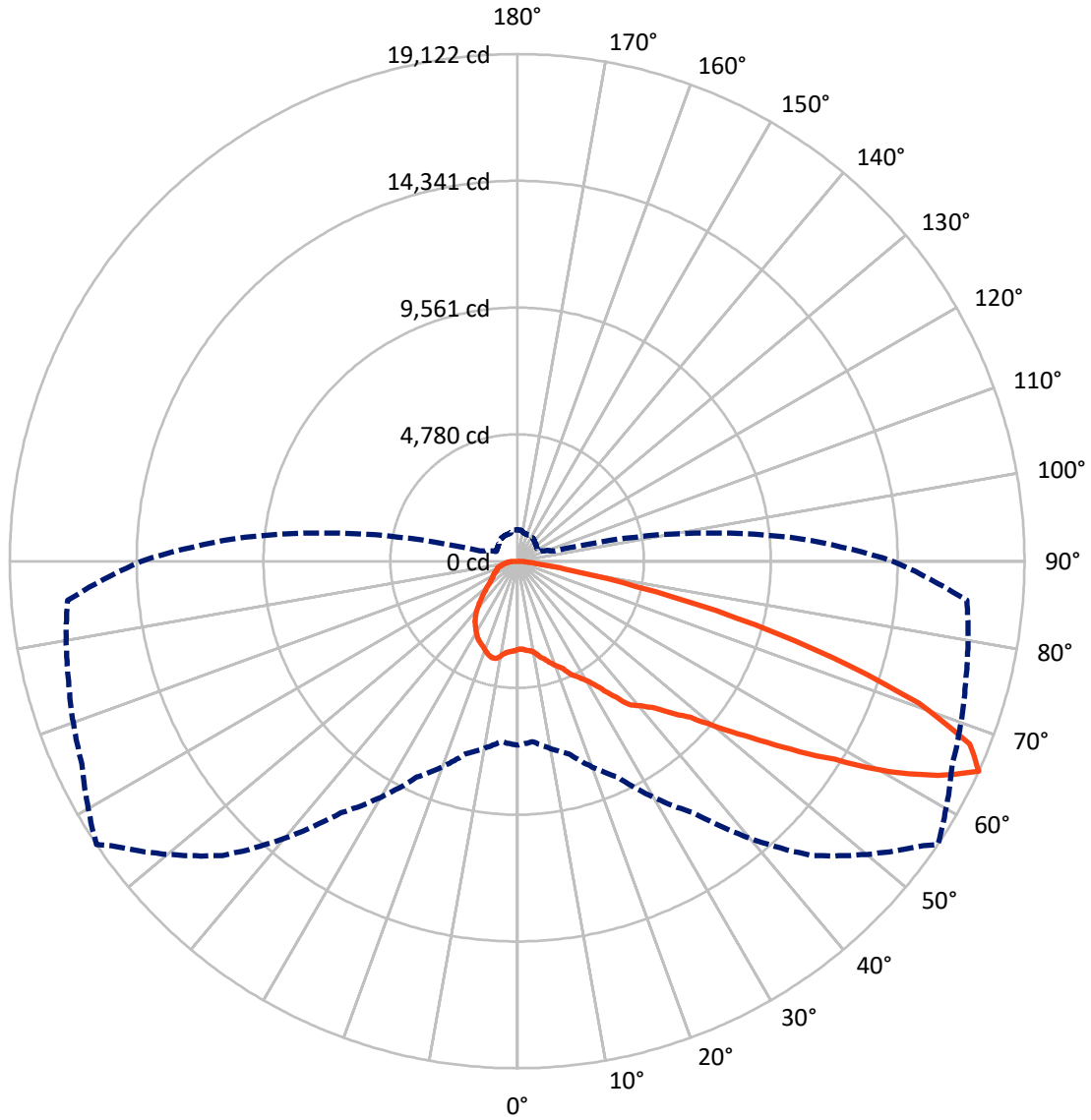
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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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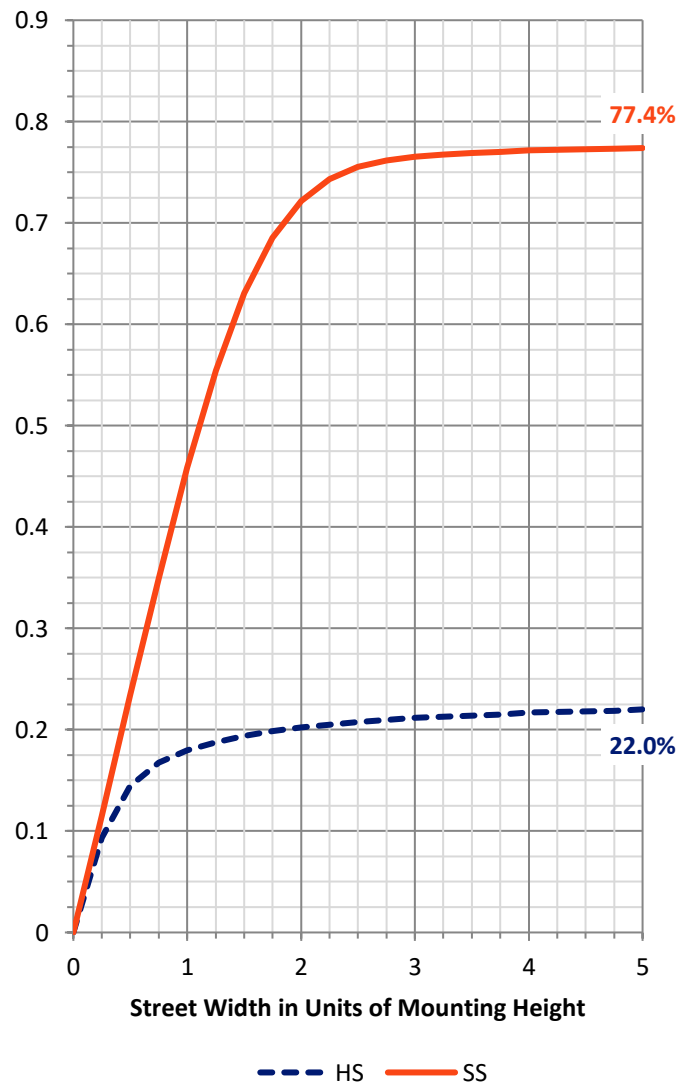
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6217.6	0.0	6217.6
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	21506.5	0.0	21506.5
	% Fixture	77.6	0.0	77.6
Total	Lumens	27724.1	0.0	27724.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	329.8	1.2
10°-20°	1070.8	3.9
20°-30°	1906.6	6.9
30°-40°	2855.1	10.3
40°-50°	4230.1	15.3
50°-60°	6518.0	23.5
60°-70°	7379.2	26.6
70°-80°	3062.5	11.0
80°-90°	372.1	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°	27724.1	100.0
0°-180°	27724.1	100.0

Coefficient of Utilization

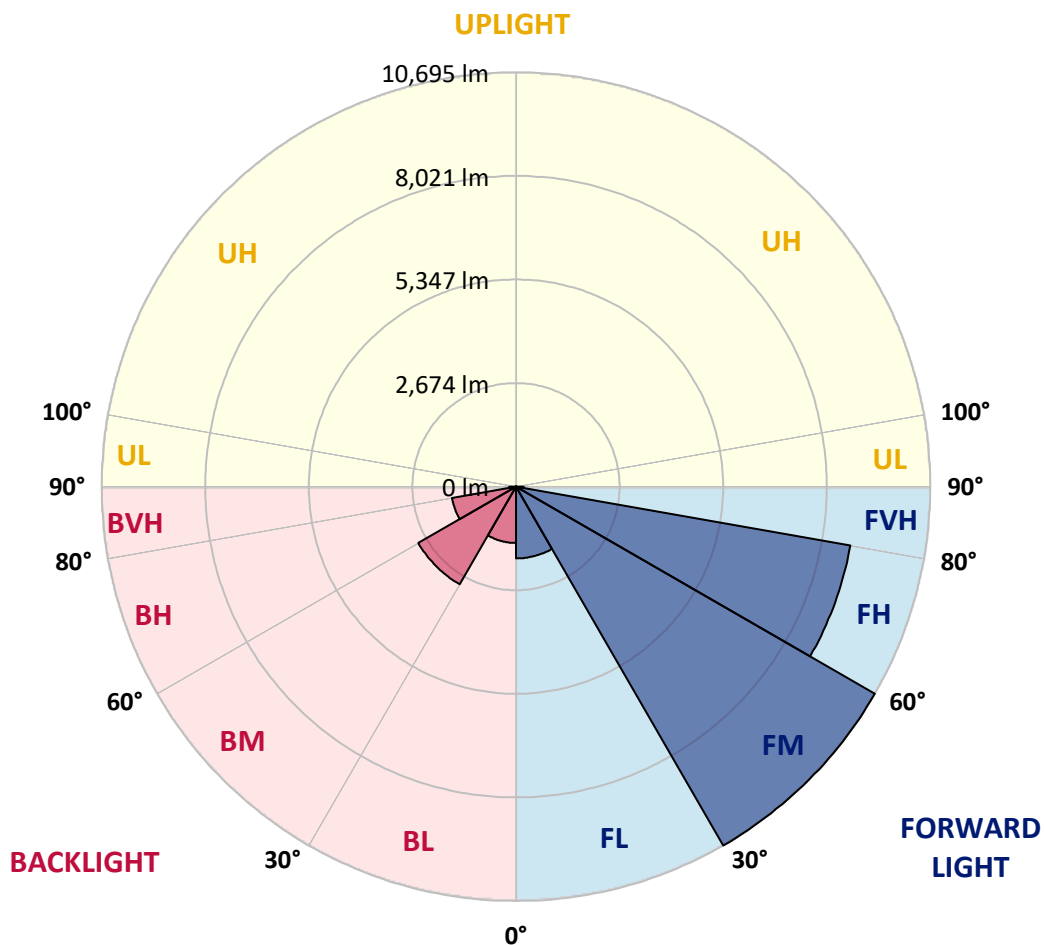


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1852.8	6.7			
FM (30°-60°)	10694.8	38.6			
FH (60°-80°)	8762.7	31.6			G4/12000
FVH (80°-90°)	196.2	0.7			G2/225
BL (0°-30°)	1454.4	5.2	B3/2500		
BM (30°-60°)	2908.5	10.5	B3/5000		
BH (60°-80°)	1679.0	6.1	B3/2500		G3/2500
BVH (80°-90°)	175.8	0.6			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°	3327.7	3327.7	3327.7	3327.7	3327.7	3327.7	3327.7	3327.7	3327.7	3327.7
2.5°	3240.7	3258.1	3246.5	3281.3	3310.3	3310.3	3333.5	3316.1	3339.3	3371.2
5°	3348.0	3278.4	3316.1	3333.5	3324.8	3339.3	3316.1	3374.1	3336.4	3397.3
7.5°	3374.1	3400.2	3432.1	3403.1	3429.2	3414.7	3417.6	3408.9	3388.6	3437.9
10°	3565.6	3527.9	3600.4	3556.9	3551.1	3545.3	3533.7	3490.2	3539.5	3542.4
12.5°	3786.1	3751.3	3748.4	3713.5	3760.0	3675.8	3693.2	3670.0	3678.7	3690.3
15°	3945.6	3931.1	3997.9	3957.2	3896.3	3858.6	3899.2	3835.4	3867.3	3861.5
17.5°	4261.9	4259.0	4209.7	4142.9	4108.1	4053.0	4044.3	4018.2	4041.4	4029.8
20°	4482.4	4514.3	4523.0	4444.7	4311.2	4250.3	4235.8	4215.5	4241.6	4232.9
22.5°	4818.9	4769.6	4807.3	4670.9	4621.6	4476.6	4424.3	4395.3	4520.1	4488.2
25°	5033.6	5085.8	5048.1	5001.7	4891.4	4711.6	4673.8	4737.7	4787.0	4752.2
27.5°	5518.1	5465.9	5431.1	5291.8	5219.3	5030.7	4987.2	4964.0	4975.6	4995.9
30°	5886.6	5915.6	5837.2	5738.6	5555.8	5364.3	5262.8	5242.5	5201.9	5167.1
32.5°	6411.7	6368.2	6321.7	6257.9	6101.2	5848.8	5750.2	5674.8	5552.9	5390.4
35°	6664.1	6788.8	6754.0	6582.8	6463.9	6368.2	6339.1	6223.1	6121.6	5866.2
37.5°	7084.8	7137.0	7087.7	7032.5	6977.4	6875.9	6841.1	6873.0	6672.8	6252.1
40°	7357.5	7467.7	7569.3	7415.5	7403.9	7424.2	7209.5	7171.8	6759.8	6539.3
42.5°	7914.5	7960.9	7981.2	7975.4	8042.2	8042.2	7633.1	7551.8	7258.8	7079.0
45°	8651.4	8689.1	8761.7	8813.9	8738.4	8776.2	8193.0	8161.1	7900.0	7865.2
47.5°	9289.7	9379.6	9542.1	9695.8	9794.5	9666.8	9028.6	8802.3	8735.5	8944.4
50°	9846.7	9739.4	10119.4	10276.1	10708.4	10920.2	9951.1	9861.2	9753.9	10154.2
52.5°	9901.8	10046.9	10583.6	10896.9	11787.6	12179.3	11082.6	11044.9	10914.3	11375.6
55°	10296.4	10279.0	10818.6	11497.5	12556.4	13215.0	12556.4	12533.2	12248.9	12687.0
57.5°	10229.7	10406.6	10833.1	11781.8	13249.8	14326.2	14265.2	14105.7	13708.2	14065.1
60°	10003.4	10049.8	10569.1	11773.1	13653.1	15466.3	16110.4	16142.3	15330.0	15614.3
62.5°	8721.0	8828.4	9487.0	10847.6	13365.9	16252.6	17912.1	17798.9	17149.0	16824.1
65°	6936.8	6829.4	7514.1	8985.0	11578.7	15695.5	18701.2	19121.9	18100.6	17505.9
67.5°	4253.2	4227.1	4885.6	6182.5	8663.0	13357.2	18071.6	18399.5	17836.6	17360.8
70°	2190.4	2123.7	2535.7	3449.5	5445.6	9800.3	15727.5	16049.5	16586.2	15570.8
72.5°	1021.2	1006.7	1227.2	1697.2	2773.6	5761.8	12179.3	12411.4	13542.8	13128.0
75°	600.6	609.3	734.0	887.8	1352.0	2715.5	8082.8	8532.5	9759.7	9460.8
77.5°	449.7	449.7	522.2	618.0	789.1	1050.2	3989.2	4583.9	5706.7	5132.2
80°	330.7	336.5	400.4	464.2	548.3	542.5	1584.1	1856.8	2616.9	2236.8
82.5°	258.2	266.9	310.4	345.2	385.9	327.8	649.9	699.2	1076.3	855.9
85°	179.9	185.7	243.7	235.0	235.0	182.8	269.8	284.3	426.5	406.2
87.5°	43.5	49.3	118.9	130.6	98.6	55.1	84.1	95.7	153.8	177.0
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°
3327.7	0°	3327.7	3327.7	3327.7	3327.7	3327.7	3327.7	3327.7	3327.7	3327.7	3327.7
3385.7	2.5°	3342.2	3353.8	3403.1	3377.0	3391.5	3330.6	3379.9	3339.3	3374.1	3356.7
3411.8	5°	3435.0	3408.9	3437.9	3417.6	3417.6	3440.8	3475.6	3449.5	3501.8	3478.5
3432.1	7.5°	3472.7	3475.6	3493.1	3496.0	3481.5	3554.0	3556.9	3548.2	3597.5	3585.9
3571.4	10°	3565.6	3568.5	3600.4	3617.8	3603.3	3629.4	3600.4	3577.2	3574.3	3562.7
3681.6	12.5°	3713.5	3742.6	3736.8	3751.3	3754.2	3643.9	3577.2	3464.0	3449.5	3464.0
3844.1	15°	3849.9	3838.3	3844.1	3873.1	3751.3	3574.3	3455.3	3359.6	3365.4	3368.3
4055.9	17.5°	4012.4	4021.1	4029.8	3896.3	3672.9	3464.0	3359.6	3359.6	3330.6	3342.2
4203.9	20°	4198.0	4163.2	4087.8	3899.2	3536.6	3336.4	3304.5	3304.5	3269.7	3246.5
4363.4	22.5°	4343.1	4273.5	4160.3	3809.3	3414.7	3287.1	3208.7	3153.6	3113.0	3066.6
4540.4	25°	4435.9	4398.2	4177.7	3716.4	3324.8	3156.5	3040.5	2956.3	2904.1	2843.2
4679.7	27.5°	4578.1	4505.6	4227.1	3609.1	3226.1	3026.0	2846.1	2715.5	2616.9	2553.1
4891.4	30°	4769.6	4665.1	4192.2	3455.3	3075.3	2799.7	2587.9	2419.6	2306.5	2254.2
5091.6	32.5°	4926.3	4789.9	4163.2	3316.1	2907.0	2570.5	2289.1	2117.9	2054.1	1987.3
5428.2	35°	5225.1	4955.3	4142.9	3237.7	2756.1	2341.3	2045.4	1897.4	1816.2	1717.5
5628.3	37.5°	5454.3	5242.5	4093.6	3075.3	2561.8	2117.9	1859.7	1726.2	1604.4	1499.9
6092.5	40°	5814.0	5642.9	4096.5	2846.1	2332.6	1926.4	1714.6	1575.4	1421.6	1331.7
6780.1	42.5°	6490.0	6037.4	4113.9	2663.3	2074.4	1769.7	1584.1	1418.7	1264.9	1189.5
7563.5	45°	7319.8	6579.9	4006.6	2497.9	1810.4	1621.8	1427.4	1262.0	1163.4	1108.3
8628.2	47.5°	8274.2	7110.9	3861.5	2187.5	1589.9	1465.1	1282.3	1186.6	1114.1	1082.2
10000.5	50°	9341.9	7871.0	3820.9	1903.2	1418.7	1331.7	1212.7	1140.2	1090.9	1053.1
11546.8	52.5°	10717.1	8755.8	3739.7	1610.2	1270.7	1224.3	1186.6	1137.3	1093.8	1061.8
12988.7	55°	12031.3	9736.5	3652.6	1369.4	1166.3	1172.1	1192.4	1148.9	1111.2	1061.8
14604.7	57.5°	13510.9	10737.4	3330.6	1192.4	1088.0	1146.0	1186.6	1137.3	1099.6	1061.8
16258.4	60°	14424.8	11300.2	2701.0	1038.6	1018.3	1096.7	1151.8	1099.6	1058.9	1073.4
17018.5	62.5°	14796.2	11004.3	2036.6	942.9	969.0	1029.9	1096.7	1076.3	1047.3	1102.5
17009.8	65°	14163.7	10322.5	1456.4	861.7	902.3	963.2	1047.3	1070.5	1079.2	1186.6
15623.0	67.5°	12602.9	8987.9	1070.5	794.9	832.6	922.6	1082.2	1119.9	1114.1	1247.5
13110.6	70°	10084.6	7029.6	835.5	739.8	806.5	954.5	1131.5	1131.5	1090.9	1247.5
10000.5	72.5°	7337.2	4955.3	719.5	676.0	739.8	876.2	1125.7	1122.8	1070.5	1140.2
6368.2	75°	4441.8	2883.8	635.4	612.2	635.4	751.4	1076.3	1058.9	986.4	980.6
3063.7	77.5°	2213.6	1450.6	519.3	542.5	554.1	629.6	945.8	971.9	873.3	850.1
1209.8	80°	934.2	632.5	432.3	467.1	467.1	530.9	786.2	803.6	725.3	681.8
478.7	82.5°	426.5	362.7	368.5	406.2	380.1	412.0	623.8	644.1	588.9	516.4
203.1	85°	179.9	206.0	281.4	319.1	281.4	266.9	429.4	452.6	383.0	319.1
87.0	87.5°	81.2	113.1	177.0	232.1	142.2	124.8	229.2	237.9	191.5	142.2
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>
3327.7
3324.8
3446.6
3568.5
3562.7
3469.8
3408.9
3345.1
3211.6
3040.5
2854.8
2582.1
2283.3
1984.4
1708.8
1502.8
1340.4
1195.3
1119.9
1076.3
1058.9
1058.9
1058.9
1058.9
1061.8
1088.0
1186.6
1256.2
1221.4
1099.6
969.0
835.5
667.3
504.8
322.0
133.5
0.0

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