

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: P477281

Luminaire Tested: **IFLD-M-SA4C-727-U-T3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477281
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-727-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (64) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

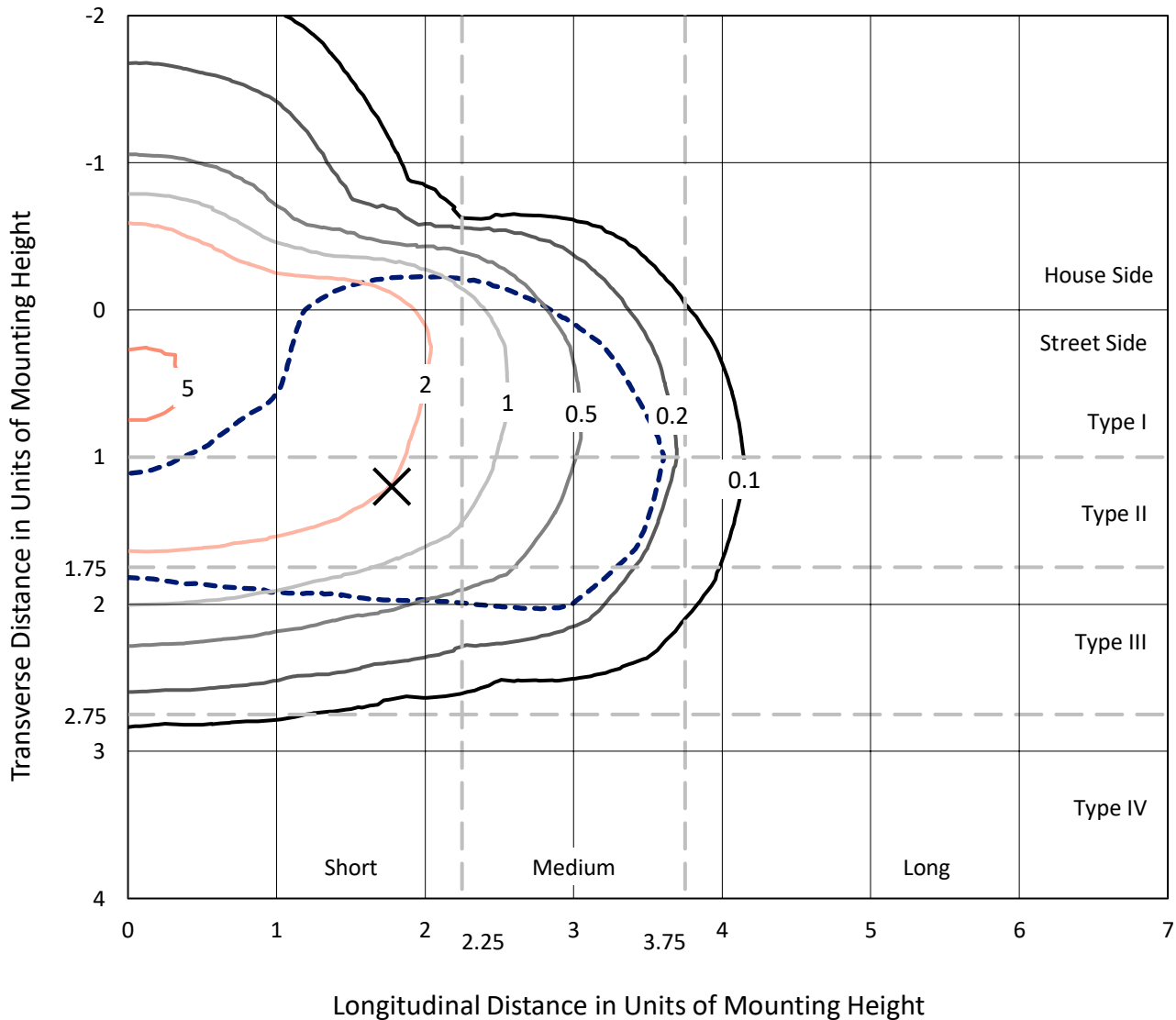
Lumens per Lamp: N/A
Luminaire Lumens: 24217.8 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 218.1
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

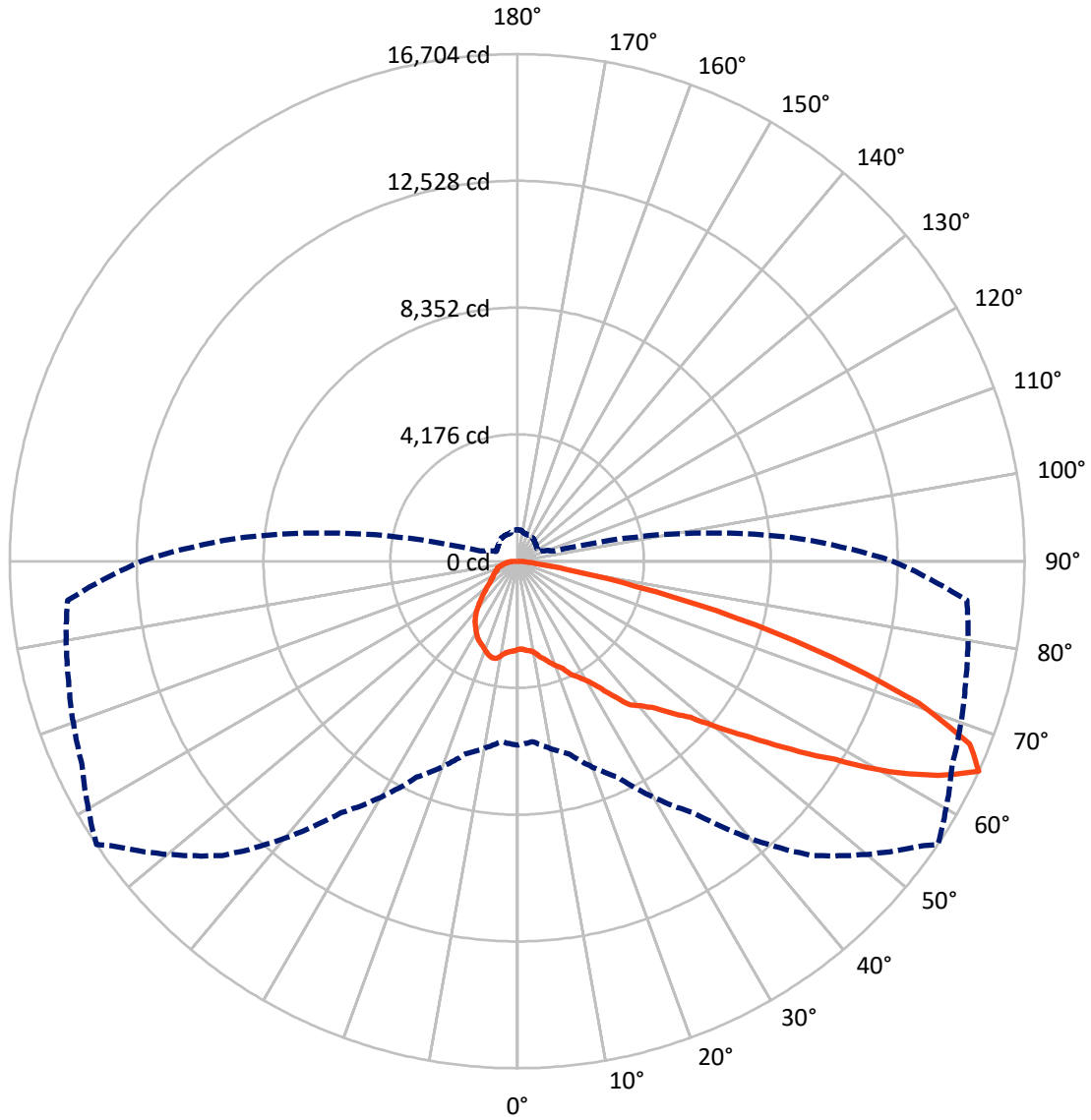
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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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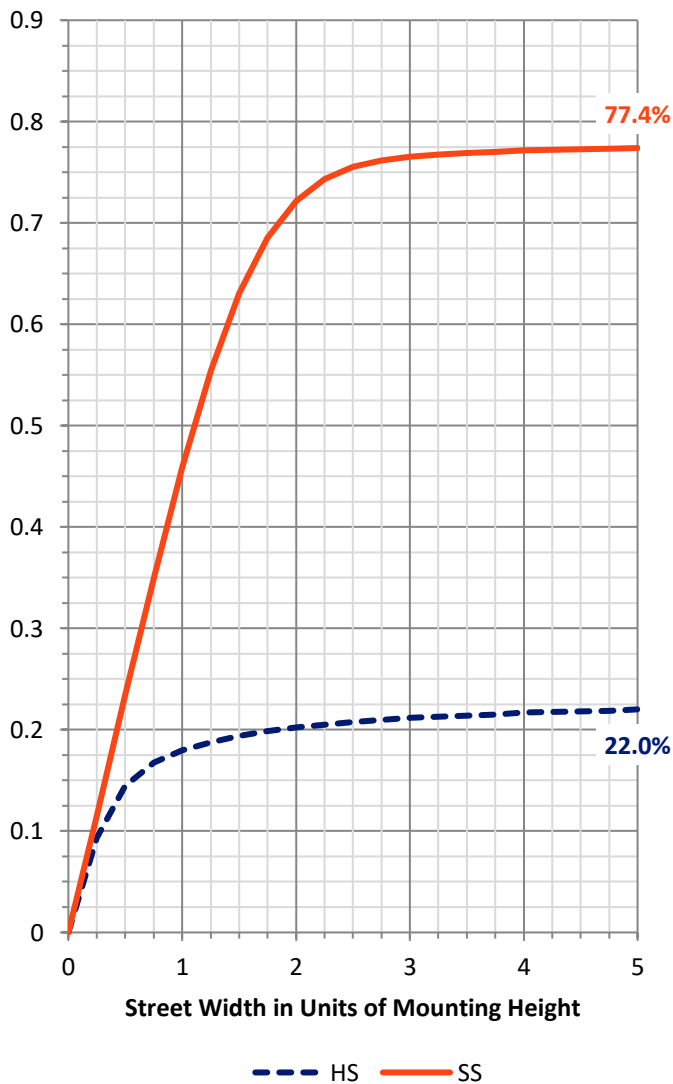
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5431.3	0.0	5431.3
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	18786.5	0.0	18786.5
	% Fixture	77.6	0.0	77.6
Total	Lumens	24217.8	0.0	24217.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.1	1.2
10°-20°	935.4	3.9
20°-30°	1665.5	6.9
30°-40°	2494.0	10.3
40°-50°	3695.1	15.3
50°-60°	5693.7	23.5
60°-70°	6446.0	26.6
70°-80°	2675.1	11.0
80°-90°	325.0	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°	24217.8	100.0
0°-180°	24217.8	100.0

Coefficient of Utilization

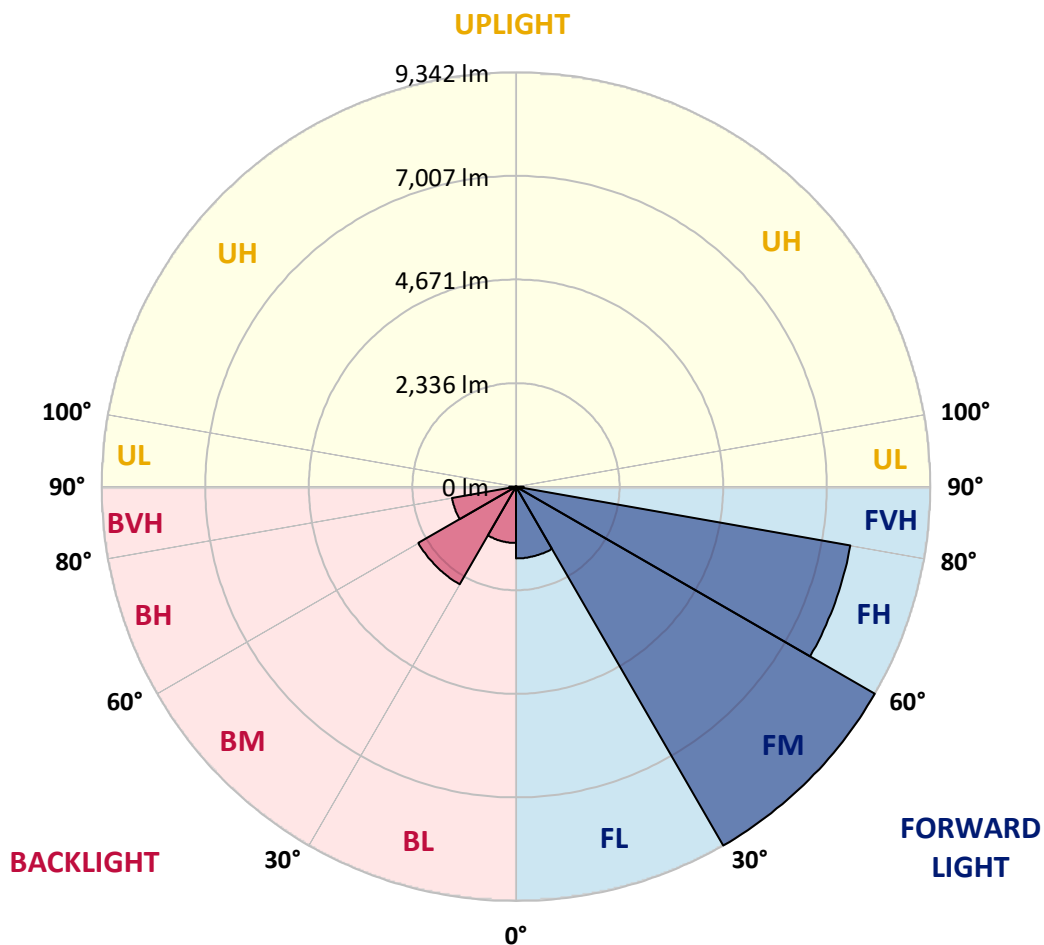


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1618.5	6.7			
FM (30°-60°)	9342.2	38.6			
FH (60°-80°)	7654.5	31.6			G4/12000
FVH (80°-90°)	171.4	0.7			G2/225
BL (0°-30°)	1270.4	5.2	B3/2500		
BM (30°-60°)	2540.7	10.5	B3/5000		
BH (60°-80°)	1466.6	6.1	B3/2500		G3/2500
BVH (80°-90°)	153.6	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°	2906.8	2906.8	2906.8	2906.8	2906.8	2906.8	2906.8	2906.8	2906.8	2906.8
2.5°	2830.8	2846.0	2835.9	2866.3	2891.6	2891.6	2911.9	2896.7	2917.0	2944.8
5°	2924.6	2863.7	2896.7	2911.9	2904.3	2917.0	2896.7	2947.4	2914.4	2967.6
7.5°	2947.4	2970.2	2998.1	2972.7	2995.5	2982.9	2985.4	2977.8	2960.0	3003.1
10°	3114.6	3081.7	3145.0	3107.0	3102.0	3096.9	3086.8	3048.7	3091.8	3094.4
12.5°	3307.2	3276.8	3274.3	3243.9	3284.4	3210.9	3226.1	3205.9	3213.5	3223.6
15°	3446.6	3434.0	3492.2	3456.8	3403.5	3370.6	3406.1	3350.3	3378.2	3373.1
17.5°	3722.9	3720.3	3677.2	3619.0	3588.5	3540.4	3532.8	3510.0	3530.3	3520.1
20°	3915.5	3943.3	3951.0	3882.5	3765.9	3712.7	3700.1	3682.3	3705.1	3697.5
22.5°	4209.4	4166.4	4199.3	4080.2	4037.1	3910.4	3864.8	3839.4	3948.4	3920.5
25°	4397.0	4442.6	4409.7	4369.1	4272.8	4115.7	4082.7	4138.5	4181.6	4151.2
27.5°	4820.2	4774.6	4744.2	4622.5	4559.2	4394.5	4356.4	4336.2	4346.3	4364.0
30°	5142.1	5167.4	5099.0	5012.8	4853.2	4685.9	4597.2	4579.5	4544.0	4513.6
32.5°	5600.8	5562.8	5522.2	5466.5	5329.6	5109.1	5023.0	4957.1	4850.6	4708.7
35°	5821.3	5930.2	5899.8	5750.3	5646.4	5562.8	5537.4	5436.0	5347.3	5124.3
37.5°	6188.7	6234.3	6191.3	6143.1	6095.0	6006.3	5975.8	6003.7	5828.9	5461.4
40°	6426.9	6523.2	6611.9	6477.6	6467.5	6485.2	6297.7	6264.8	5904.9	5712.3
42.5°	6913.5	6954.1	6971.8	6966.7	7025.0	7025.0	6667.7	6596.7	6340.8	6183.7
45°	7557.2	7590.2	7653.5	7699.2	7633.3	7666.2	7156.8	7128.9	6900.9	6870.4
47.5°	8114.8	8193.3	8335.3	8469.6	8555.7	8444.2	7886.7	7689.0	7630.7	7813.2
50°	8601.4	8507.6	8839.6	8976.4	9354.0	9539.0	8692.6	8614.0	8520.3	8870.0
52.5°	8649.5	8776.2	9245.1	9518.8	10296.8	10638.9	9681.0	9648.0	9534.0	9936.9
55°	8994.2	8979.0	9450.3	10043.4	10968.4	11543.7	10968.4	10948.1	10699.8	11082.4
57.5°	8935.9	9090.5	9463.0	10291.7	11574.1	12514.3	12461.1	12321.7	11974.5	12286.2
60°	8738.2	8778.8	9232.4	10284.1	11926.3	13510.3	14072.9	14100.8	13391.2	13639.5
62.5°	7618.1	7711.8	8287.1	9475.7	11675.5	14197.1	15646.7	15547.8	14980.2	14696.3
65°	6059.5	5965.7	6563.8	7848.7	10114.3	13710.5	16336.0	16703.5	15811.4	15291.9
67.5°	3715.3	3692.5	4267.7	5400.6	7567.4	11667.8	15786.1	16072.4	15580.8	15165.2
70°	1913.4	1855.1	2215.0	3013.3	4756.9	8560.8	13738.4	14019.7	14488.5	13601.5
72.5°	892.1	879.4	1072.0	1482.6	2422.8	5033.1	10638.9	10841.7	11830.0	11467.6
75°	524.6	532.2	641.2	775.5	1181.0	2372.1	7060.5	7453.3	8525.3	8264.3
77.5°	392.8	392.8	456.2	539.8	689.3	917.4	3484.6	4004.2	4984.9	4483.2
80°	288.9	294.0	349.7	405.5	479.0	473.9	1383.7	1621.9	2285.9	1953.9
82.5°	225.6	233.2	271.2	301.6	337.1	286.4	567.7	610.8	940.2	747.6
85°	157.1	162.2	212.9	205.3	205.3	159.7	235.7	248.4	372.5	354.8
87.5°	38.0	43.1	103.9	114.0	86.2	48.2	73.5	83.6	134.3	154.6
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°
2906.8	0°	2906.8	2906.8	2906.8	2906.8	2906.8	2906.8	2906.8	2906.8	2906.8	2906.8
2957.5	2.5°	2919.5	2929.6	2972.7	2949.9	2962.6	2909.4	2952.4	2917.0	2947.4	2932.2
2980.3	5°	3000.6	2977.8	3003.1	2985.4	2985.4	3005.7	3036.1	3013.3	3058.9	3038.6
2998.1	7.5°	3033.5	3036.1	3051.3	3053.8	3041.1	3104.5	3107.0	3099.4	3142.5	3132.4
3119.7	10°	3114.6	3117.2	3145.0	3160.3	3147.6	3170.4	3145.0	3124.8	3122.2	3112.1
3216.0	12.5°	3243.9	3269.2	3264.2	3276.8	3279.4	3183.1	3124.8	3025.9	3013.3	3025.9
3357.9	15°	3363.0	3352.9	3357.9	3383.3	3276.8	3122.2	3018.3	2934.7	2939.8	2942.3
3542.9	17.5°	3504.9	3512.5	3520.1	3403.5	3208.4	3025.9	2934.7	2934.7	2909.4	2919.5
3672.2	20°	3667.1	3636.7	3570.8	3406.1	3089.3	2914.4	2886.6	2886.6	2856.1	2835.9
3811.6	22.5°	3793.8	3733.0	3634.2	3327.5	2982.9	2871.3	2802.9	2754.8	2719.3	2678.7
3966.2	25°	3874.9	3842.0	3649.4	3246.4	2904.3	2757.3	2655.9	2582.4	2536.8	2483.6
4087.8	27.5°	3999.1	3935.7	3692.5	3152.7	2818.1	2643.3	2486.1	2372.1	2285.9	2230.2
4272.8	30°	4166.4	4075.1	3662.0	3018.3	2686.3	2445.6	2260.6	2113.6	2014.8	1969.1
4447.7	32.5°	4303.2	4184.1	3636.7	2896.7	2539.4	2245.4	1999.6	1850.0	1794.3	1736.0
4741.6	35°	4564.2	4328.6	3619.0	2828.3	2407.6	2045.2	1786.7	1657.4	1586.5	1500.3
4916.5	37.5°	4764.5	4579.5	3575.9	2686.3	2237.8	1850.0	1624.5	1507.9	1401.5	1310.2
5322.0	40°	5078.7	4929.2	3578.4	2486.1	2037.6	1682.8	1497.8	1376.1	1241.8	1163.2
5922.6	42.5°	5669.2	5273.8	3593.6	2326.5	1812.0	1545.9	1383.7	1239.3	1104.9	1039.1
6606.9	45°	6394.0	5747.8	3499.8	2182.0	1581.4	1416.7	1246.9	1102.4	1016.2	968.1
7537.0	47.5°	7227.8	6211.5	3373.1	1910.9	1388.8	1279.8	1120.2	1036.5	973.2	945.3
8735.7	50°	8160.4	6875.5	3337.7	1662.5	1239.3	1163.2	1059.3	996.0	952.9	919.9
10086.5	52.5°	9361.6	7648.5	3266.7	1406.5	1110.0	1069.5	1036.5	993.4	955.4	927.5
11346.0	55°	10509.7	8505.1	3190.7	1196.2	1018.8	1023.9	1041.6	1003.6	970.6	927.5
12757.6	57.5°	11802.2	9379.4	2909.4	1041.6	950.4	1001.0	1036.5	993.4	960.5	927.5
14202.1	60°	12600.5	9871.0	2359.4	907.3	889.5	958.0	1006.1	960.5	925.0	937.7
14866.1	62.5°	12924.9	9612.5	1779.1	823.6	846.5	899.7	958.0	940.2	914.9	963.0
14858.5	65°	12372.4	9017.0	1272.2	752.7	788.2	841.4	914.9	935.2	942.8	1036.5
13647.1	67.5°	11008.9	7851.2	935.2	694.4	727.3	805.9	945.3	978.2	973.2	1089.7
11452.4	70°	8809.2	6140.6	729.9	646.2	704.5	833.8	988.4	988.4	952.9	1089.7
8735.7	72.5°	6409.2	4328.6	628.5	590.5	646.2	765.4	983.3	980.8	935.2	996.0
5562.8	75°	3880.0	2519.1	555.0	534.7	555.0	656.4	940.2	925.0	861.7	856.6
2676.2	77.5°	1933.7	1267.1	453.6	473.9	484.0	549.9	826.2	849.0	762.8	742.5
1056.8	80°	816.0	552.5	377.6	408.0	408.0	463.8	686.8	702.0	633.6	595.6
418.2	82.5°	372.5	316.8	321.9	354.8	332.0	359.9	544.9	562.6	514.5	451.1
177.4	85°	157.1	179.9	245.8	278.8	245.8	233.2	375.1	395.3	334.5	278.8
76.0	87.5°	71.0	98.8	154.6	202.7	124.2	109.0	200.2	207.8	167.3	124.2
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>
2906.8
2904.3
3010.7
3117.2
3112.1
3031.0
2977.8
2922.0
2805.5
2655.9
2493.7
2255.5
1994.5
1733.5
1492.7
1312.8
1170.8
1044.1
978.2
940.2
925.0
925.0
925.0
925.0
927.5
950.4
1036.5
1097.3
1066.9
960.5
846.5
729.9
582.9
441.0
281.3
116.6
0.0

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