

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: P477263

Luminaire Tested: **IFLD-S-SA3E-727-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477263
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3E-727-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (48) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

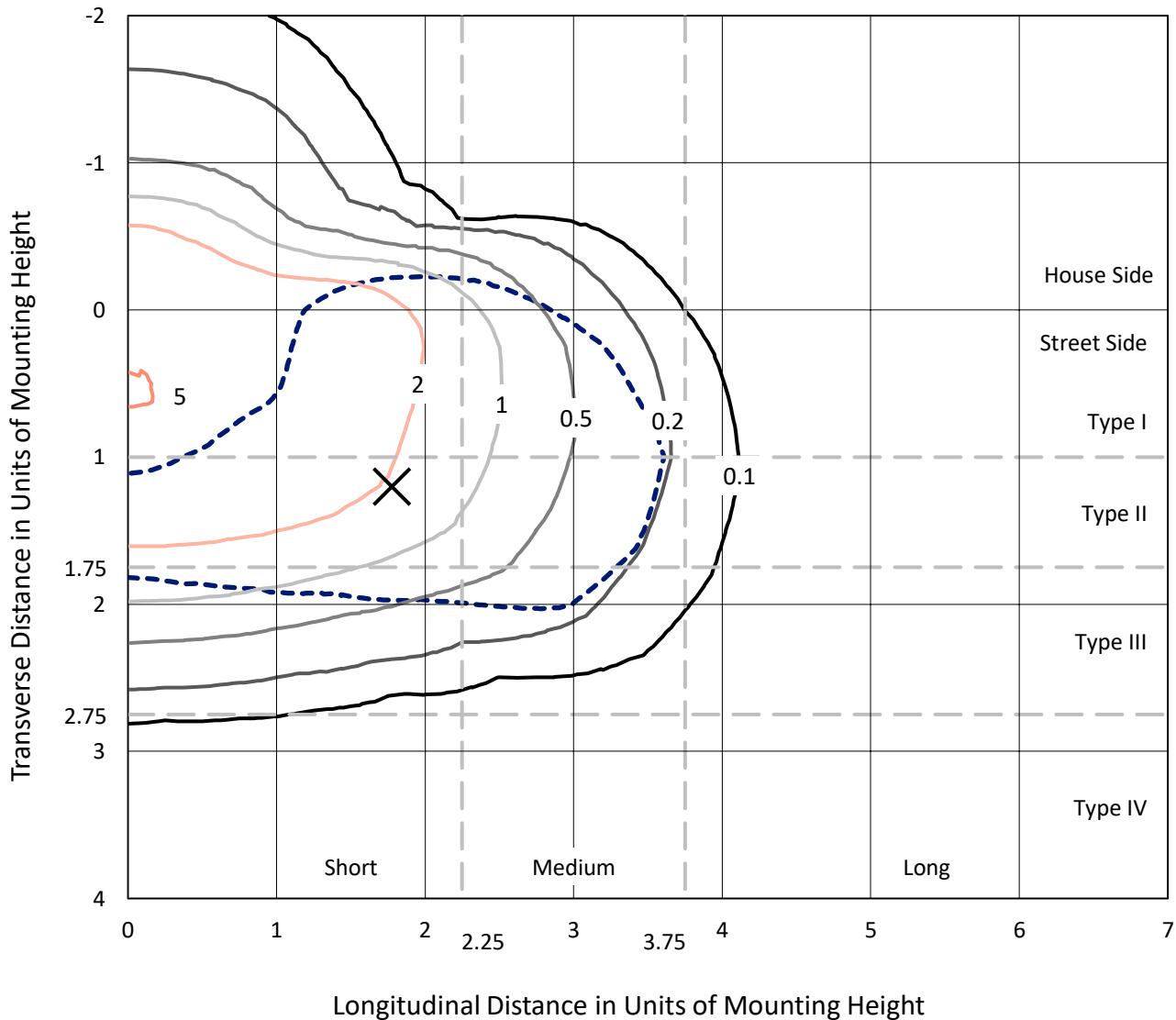
Lumens per Lamp: N/A
Luminaire Lumens: 22975.6 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 232.1
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

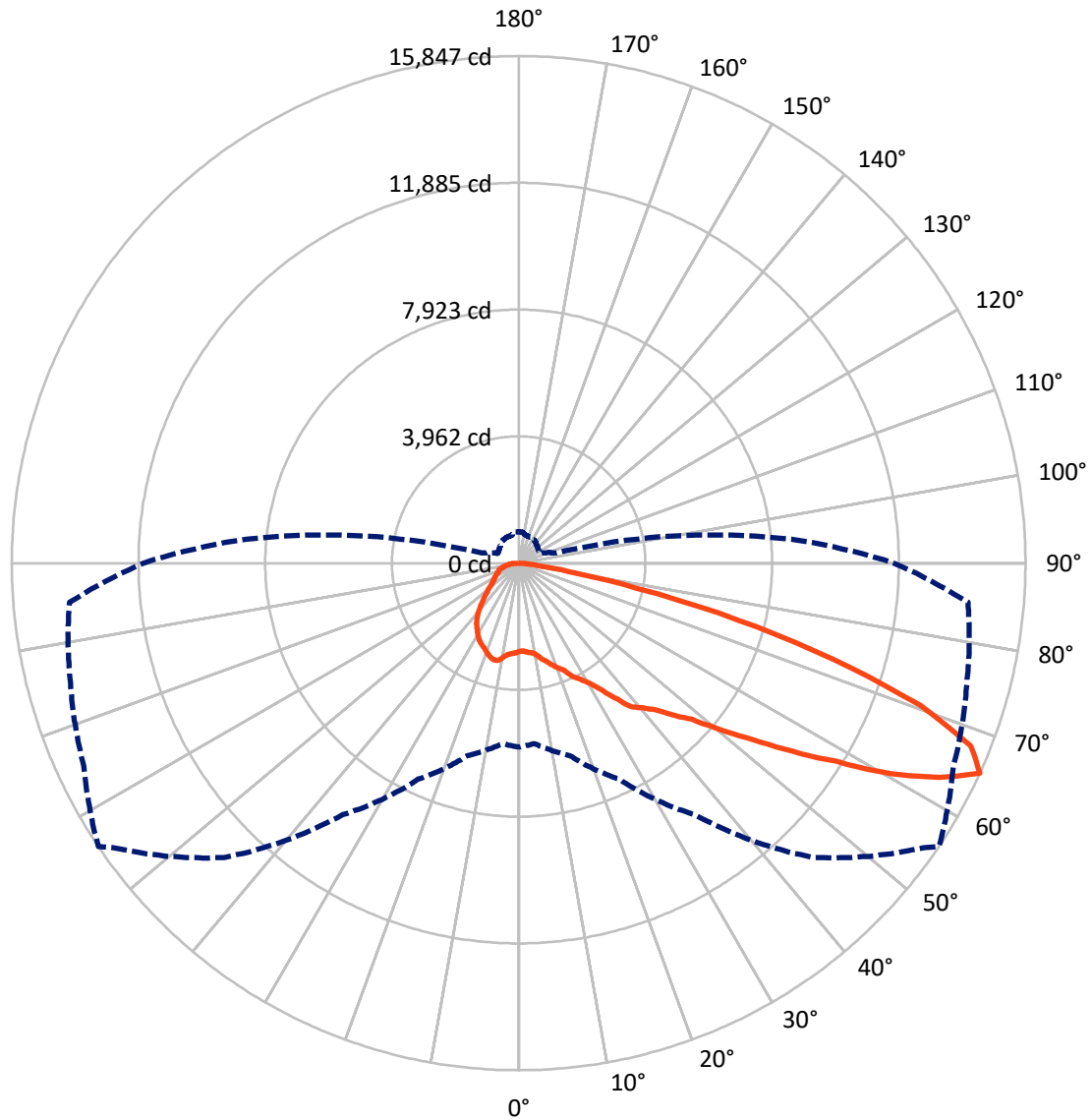
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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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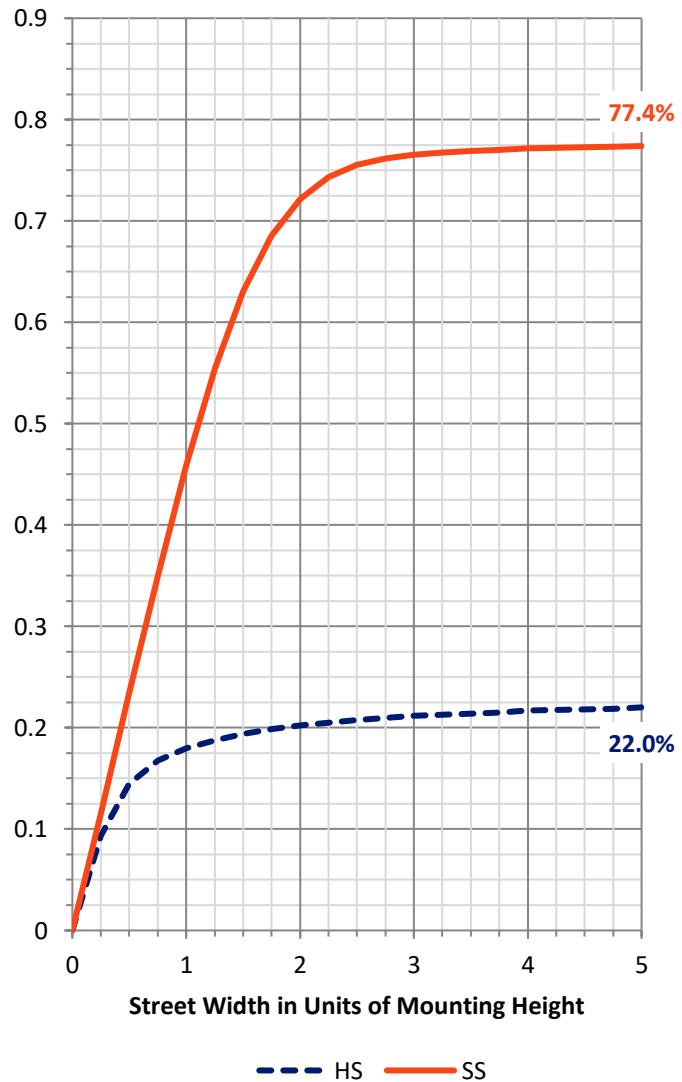
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5152.7	0.0	5152.7
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	17822.9	0.0	17822.9
	% Fixture	77.6	0.0	77.6
Total	Lumens	22975.6	0.0	22975.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.3	1.2
10°-20°	887.4	3.9
20°-30°	1580.0	6.9
30°-40°	2366.1	10.3
40°-50°	3505.6	15.3
50°-60°	5401.6	23.5
60°-70°	6115.3	26.6
70°-80°	2537.9	11.0
80°-90°	308.3	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°	22975.6	100.0
0°-180°	22975.6	100.0

Coefficient of Utilization

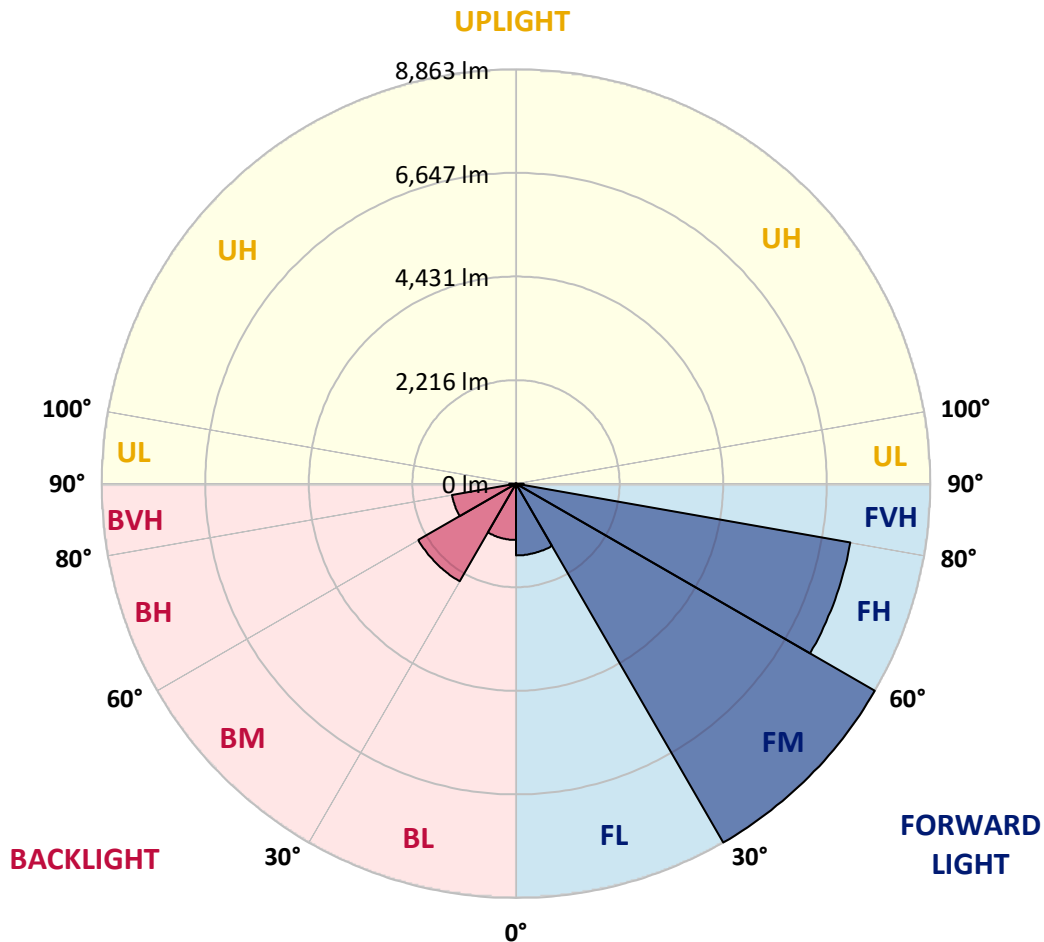


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1535.4	6.7			
FM (30°-60°)	8863.0	38.6			
FH (60°-80°)	7261.9	31.6			G3/7500
FVH (80°-90°)	162.6	0.7			G2/225
BL (0°-30°)	1205.3	5.2	B3/2500		
BM (30°-60°)	2410.3	10.5	B2/2500		
BH (60°-80°)	1391.4	6.1	B3/2500		G3/2500
BVH (80°-90°)	145.7	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-G3
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	2757.7	2757.7	2757.7	2757.7	2757.7	2757.7	2757.7	2757.7	2757.7	2757.7
2.5°	2685.6	2700.0	2690.4	2719.3	2743.3	2743.3	2762.5	2748.1	2767.3	2793.8
5°	2774.6	2716.9	2748.1	2762.5	2755.3	2767.3	2748.1	2796.2	2764.9	2815.4
7.5°	2796.2	2817.8	2844.3	2820.2	2841.9	2829.9	2832.3	2825.0	2808.2	2849.1
10°	2954.9	2923.6	2983.7	2947.7	2942.9	2938.0	2928.4	2892.4	2933.2	2935.6
12.5°	3137.6	3108.8	3106.3	3077.5	3116.0	3046.2	3060.7	3041.4	3048.6	3058.3
15°	3269.8	3257.8	3313.1	3279.5	3229.0	3197.7	3231.4	3178.5	3204.9	3200.1
17.5°	3531.9	3529.5	3488.6	3433.3	3404.5	3358.8	3351.6	3329.9	3349.2	3339.6
20°	3714.6	3741.1	3748.3	3683.4	3572.8	3522.3	3510.3	3493.4	3515.1	3507.9
22.5°	3993.5	3952.7	3983.9	3870.9	3830.0	3709.8	3666.5	3642.5	3745.9	3719.4
25°	4171.5	4214.7	4183.5	4145.0	4053.6	3904.6	3873.3	3926.2	3967.1	3938.2
27.5°	4573.0	4529.7	4500.8	4385.4	4325.3	4169.0	4133.0	4113.7	4123.4	4140.2
30°	4878.3	4902.4	4837.4	4755.7	4604.2	4445.5	4361.4	4344.6	4310.9	4282.0
32.5°	5313.5	5277.4	5239.0	5186.1	5056.2	4847.1	4765.3	4702.8	4601.8	4467.2
35°	5522.7	5626.1	5597.2	5455.3	5356.8	5277.4	5253.4	5157.2	5073.1	4861.5
37.5°	5871.3	5914.6	5873.7	5828.0	5782.3	5698.2	5669.3	5695.8	5529.9	5181.3
40°	6097.3	6188.7	6272.8	6145.4	6135.8	6152.6	5974.7	5943.4	5602.0	5419.3
42.5°	6558.9	6597.4	6614.2	6609.4	6664.7	6664.7	6325.7	6258.4	6015.5	5866.5
45°	7169.6	7200.9	7261.0	7304.2	7241.7	7273.0	6789.7	6763.3	6546.9	6518.0
47.5°	7698.6	7773.1	7907.7	8035.2	8116.9	8011.1	7482.2	7294.6	7239.3	7412.4
50°	8160.2	8071.2	8386.2	8516.0	8874.3	9049.8	8246.7	8172.2	8083.2	8415.0
52.5°	8205.9	8326.1	8770.9	9030.5	9768.7	10093.2	9184.4	9153.2	9045.0	9427.2
55°	8532.8	8518.4	8965.6	9528.2	10405.8	10951.6	10405.8	10386.6	10150.9	10514.0
57.5°	8477.5	8624.2	8977.6	9763.8	10980.4	11872.4	11821.9	11689.7	11360.3	11656.0
60°	8290.0	8328.5	8758.8	9756.6	11314.6	12817.3	13351.1	13377.5	12704.3	12939.9
62.5°	7227.3	7316.3	7862.0	8989.7	11076.6	13468.9	14844.1	14750.3	14211.8	13942.5
65°	5748.7	5659.7	6227.1	7446.1	9595.5	13007.2	15498.1	15846.7	15000.4	14507.5
67.5°	3524.7	3503.1	4048.8	5123.6	7179.2	11069.4	14976.4	15248.0	14781.6	14387.3
70°	1815.2	1759.9	2101.4	2858.7	4512.9	8121.7	13033.7	13300.6	13745.4	12903.9
72.5°	846.3	834.3	1017.0	1406.5	2298.5	4774.9	10093.2	10285.6	11223.2	10879.4
75°	497.7	504.9	608.3	735.7	1120.4	2250.4	6698.4	7071.0	8088.0	7840.4
77.5°	372.7	372.7	432.8	512.1	654.0	870.4	3305.9	3798.8	4729.2	4253.2
80°	274.1	278.9	331.8	384.7	454.4	449.6	1312.7	1538.7	2168.7	1853.7
82.5°	214.0	221.2	257.3	286.1	319.8	271.7	538.6	579.4	892.0	709.3
85°	149.1	153.9	202.0	194.7	194.7	151.5	223.6	235.6	353.4	336.6
87.5°	36.1	40.9	98.6	108.2	81.7	45.7	69.7	79.3	127.4	146.7
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°
2757.7	0°	2757.7	2757.7	2757.7	2757.7	2757.7	2757.7	2757.7	2757.7	2757.7	2757.7
2805.8	2.5°	2769.7	2779.4	2820.2	2798.6	2810.6	2760.1	2801.0	2767.3	2796.2	2781.8
2827.5	5°	2846.7	2825.0	2849.1	2832.3	2832.3	2851.5	2880.3	2858.7	2902.0	2882.7
2844.3	7.5°	2877.9	2880.3	2894.8	2897.2	2885.2	2945.3	2947.7	2940.5	2981.3	2971.7
2959.7	10°	2954.9	2957.3	2983.7	2998.2	2986.1	3007.8	2983.7	2964.5	2962.1	2952.5
3051.1	12.5°	3077.5	3101.5	3096.7	3108.8	3111.2	3019.8	2964.5	2870.7	2858.7	2870.7
3185.7	15°	3190.5	3180.9	3185.7	3209.7	3108.8	2962.1	2863.5	2784.2	2789.0	2791.4
3361.2	17.5°	3325.1	3332.4	3339.6	3229.0	3043.8	2870.7	2784.2	2784.2	2760.1	2769.7
3483.8	20°	3479.0	3450.2	3387.7	3231.4	2930.8	2764.9	2738.5	2738.5	2709.6	2690.4
3616.1	22.5°	3599.2	3541.5	3447.8	3156.8	2829.9	2724.1	2659.2	2613.5	2579.8	2541.3
3762.7	25°	3676.2	3644.9	3462.2	3079.9	2755.3	2615.9	2519.7	2450.0	2406.7	2356.2
3878.1	27.5°	3794.0	3733.9	3503.1	2990.9	2673.6	2507.7	2358.6	2250.4	2168.7	2115.8
4053.6	30°	3952.7	3866.1	3474.2	2863.5	2548.6	2320.1	2144.6	2005.2	1911.4	1868.1
4219.5	32.5°	4082.5	3969.5	3450.2	2748.1	2409.1	2130.2	1897.0	1755.1	1702.2	1646.9
4498.4	35°	4330.1	4106.5	3433.3	2683.2	2284.1	1940.3	1695.0	1572.4	1505.1	1423.3
4664.3	37.5°	4520.1	4344.6	3392.5	2548.6	2123.0	1755.1	1541.2	1430.6	1329.6	1243.0
5049.0	40°	4818.2	4676.4	3394.9	2358.6	1933.1	1596.5	1420.9	1305.5	1178.1	1103.6
5618.8	42.5°	5378.4	5003.3	3409.3	2207.1	1719.1	1466.6	1312.7	1175.7	1048.3	985.8
6268.0	45°	6066.0	5452.9	3320.3	2070.1	1500.3	1344.0	1182.9	1045.9	964.1	918.4
7150.4	47.5°	6857.0	5892.9	3200.1	1812.8	1317.6	1214.2	1062.7	983.4	923.2	896.8
8287.6	50°	7741.8	6522.9	3166.5	1577.2	1175.7	1103.6	1005.0	944.9	904.0	872.8
9569.1	52.5°	8881.5	7256.2	3099.1	1334.4	1053.1	1014.6	983.4	942.5	906.4	880.0
10764.0	55°	9970.6	8068.8	3027.0	1134.8	966.5	971.3	988.2	952.1	920.8	880.0
12103.2	57.5°	11196.8	8898.3	2760.1	988.2	901.6	949.7	983.4	942.5	911.2	880.0
13473.7	60°	11954.2	9364.7	2238.4	860.7	843.9	908.8	954.5	911.2	877.6	889.6
14103.6	62.5°	12261.9	9119.5	1687.8	781.4	803.0	853.5	908.8	892.0	868.0	913.6
14096.4	65°	11737.8	8554.5	1207.0	714.1	747.7	798.2	868.0	887.2	894.4	983.4
12947.1	67.5°	10444.3	7448.5	887.2	658.8	690.0	764.6	896.8	928.1	923.2	1033.8
10865.0	70°	8357.3	5825.6	692.4	613.1	668.4	791.0	937.7	937.7	904.0	1033.8
8287.6	72.5°	6080.5	4106.5	596.3	560.2	613.1	726.1	932.9	930.5	887.2	944.9
5277.4	75°	3681.0	2389.9	526.5	507.3	526.5	622.7	892.0	877.6	817.5	812.7
2538.9	77.5°	1834.5	1202.1	430.4	449.6	459.2	521.7	783.8	805.4	723.7	704.5
1002.6	80°	774.2	524.1	358.2	387.1	387.1	440.0	651.6	666.0	601.1	565.0
396.7	82.5°	353.4	300.5	305.3	336.6	315.0	341.4	516.9	533.8	488.1	428.0
168.3	85°	149.1	170.7	233.2	264.5	233.2	221.2	355.8	375.1	317.4	264.5
72.1	87.5°	67.3	93.8	146.7	192.3	117.8	103.4	189.9	197.2	158.7	117.8
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>
2757.7
2755.3
2856.3
2957.3
2952.5
2875.5
2825.0
2772.2
2661.6
2519.7
2365.8
2139.8
1892.2
1644.5
1416.1
1245.4
1110.8
990.6
928.1
892.0
877.6
877.6
877.6
877.6
880.0
901.6
983.4
1041.1
1012.2
911.2
803.0
692.4
553.0
418.3
266.9
110.6
0.0

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