

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: P477768

Luminaire Tested: **IFLD-S-SA3C-740-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477768
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-740-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

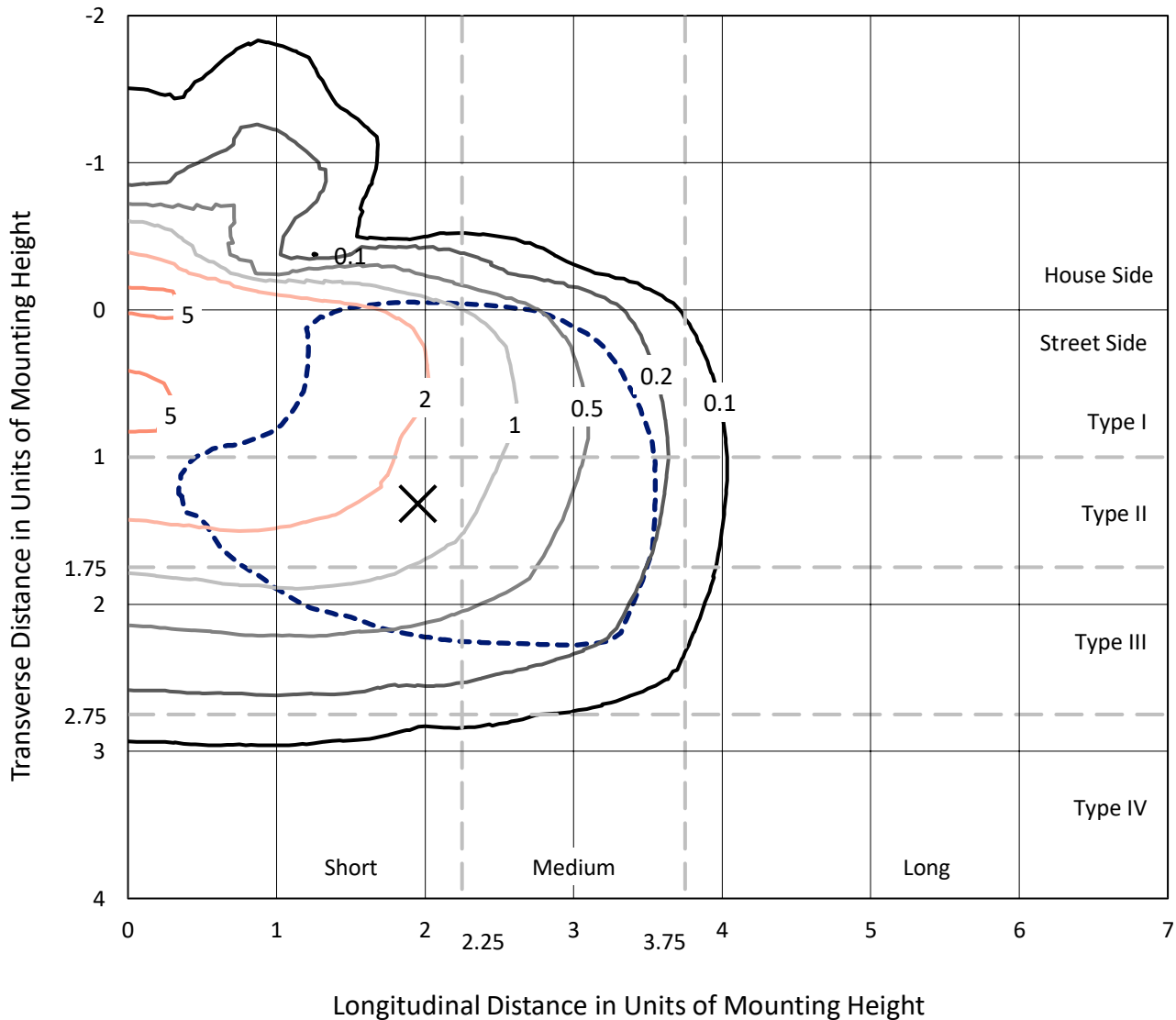
Lumens per Lamp: N/A
Luminaire Lumens: 20807 lumens
Efficiency: N/A
Efficacy: 129.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 160.8
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

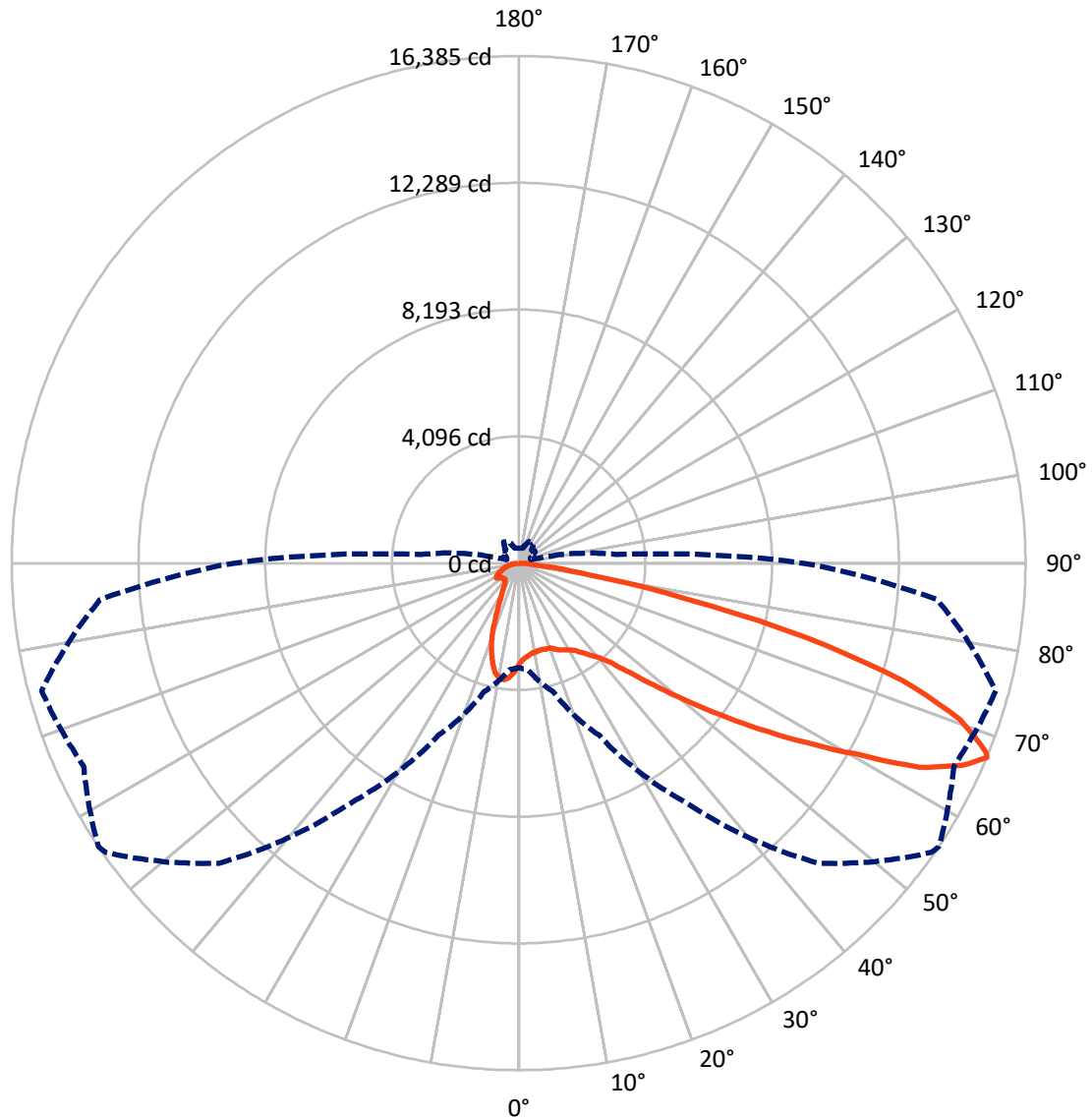
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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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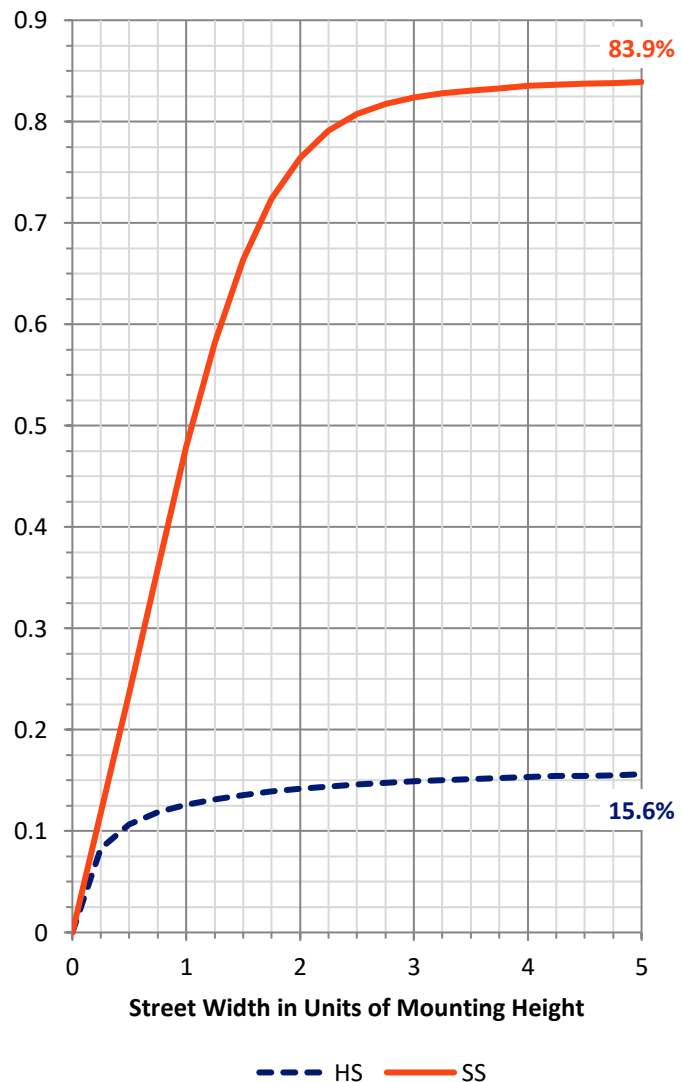
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3294.0	0.0	3294.0
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	17513.0	0.0	17513.0
	% Fixture	84.2	0.0	84.2
Total	Lumens	20807.0	0.0	20807.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	311.9	1.5
10°-20°	850.9	4.1
20°-30°	1334.4	6.4
30°-40°	1904.9	9.2
40°-50°	2875.1	13.8
50°-60°	4576.6	22.0
60°-70°	5850.9	28.1
70°-80°	2852.7	13.7
80°-90°	249.6	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°	20807.0	100.0
0°-180°	20807.0	100.0

Coefficient of Utilization

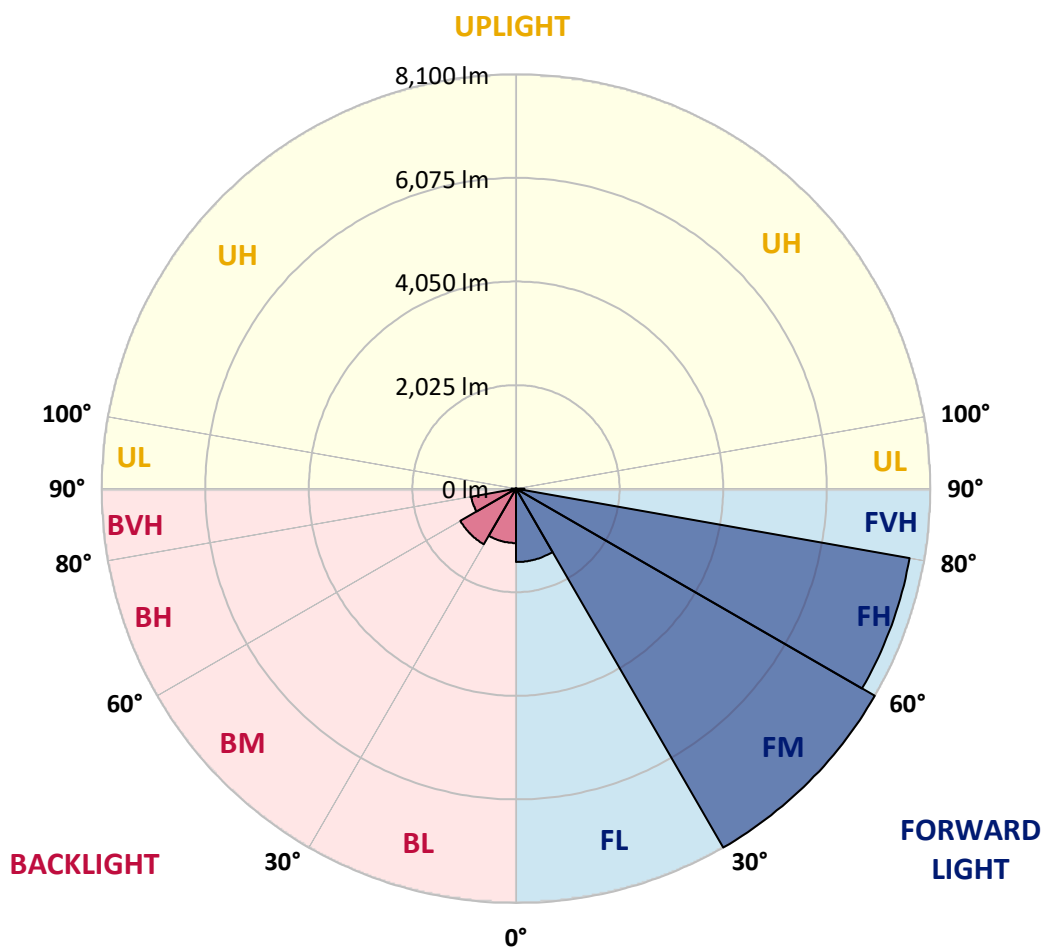


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1433.8	6.9			
FM (30°-60°)	8100.0	38.9			
FH (60°-80°)	7813.5	37.6			G4/12000
FVH (80°-90°)	165.7	0.8			G2/225
BL (0°-30°)	1063.4	5.1	B3/2500		
BM (30°-60°)	1256.7	6.0	B2/2500		
BH (60°-80°)	890.1	4.3	B2/1000		G2/1000
BVH (80°-90°)	83.8	0.4			G1/100
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°	3237.5	3237.5	3237.5	3237.5	3237.5	3237.5	3237.5	3237.5	3237.5	3237.5
2.5°	2974.0	2961.8	2976.5	2961.8	3027.7	3066.7	3078.9	3096.0	3157.0	3215.6
5°	2849.6	2795.9	2854.5	2874.0	2878.9	2944.7	3013.1	3025.3	3057.0	3152.1
7.5°	2642.2	2703.2	2681.3	2739.8	2800.8	2866.7	2978.9	2947.2	3064.3	3154.6
10°	2598.3	2603.2	2627.6	2649.5	2703.2	2788.6	2944.7	2925.2	3044.8	3237.5
12.5°	2642.2	2642.2	2634.9	2617.8	2678.8	2761.8	2886.2	2896.0	3083.8	3261.9
15°	2795.9	2825.2	2747.1	2759.3	2734.9	2761.8	2871.6	2893.5	3098.4	3281.4
17.5°	3171.6	3161.9	3069.2	2939.9	2832.5	2815.4	2891.1	2915.5	3083.8	3337.5
20°	3537.6	3518.1	3357.1	3222.9	3010.6	2910.6	2922.8	2925.2	3108.2	3374.1
22.5°	3945.0	3996.3	3820.6	3547.4	3283.9	3035.0	2986.2	3025.3	3164.3	3393.7
25°	4584.2	4474.5	4323.2	3964.6	3540.0	3227.8	3091.1	3110.6	3218.0	3442.4
27.5°	5045.3	5001.4	4764.8	4474.5	3898.7	3379.0	3147.2	3183.8	3315.6	3440.0
30°	5489.4	5489.4	5345.4	4911.2	4276.8	3632.7	3266.8	3249.7	3269.2	3435.1
32.5°	6009.0	5938.3	5730.9	5443.0	4752.6	3864.5	3361.9	3366.8	3366.8	3525.4
35°	6282.3	6397.0	6257.9	5789.5	5116.1	4250.0	3591.3	3554.7	3527.8	3625.4
37.5°	6682.4	6750.7	6604.3	6328.6	5567.4	4562.3	3793.8	3764.5	3608.4	3703.5
40°	6923.9	6911.7	6906.9	6780.0	6165.2	4930.7	4091.4	4015.8	3806.0	3979.2
42.5°	7060.6	7036.2	7336.2	7258.2	6728.8	5472.3	4464.7	4423.2	4191.4	4469.6
45°	7214.3	7394.8	7641.2	7860.8	7385.0	6233.5	5096.6	5038.0	4830.7	5184.4
47.5°	7348.4	7570.5	7885.2	8119.4	7977.9	7060.6	5877.3	5891.9	5755.3	6118.8
50°	7572.9	7594.9	8021.8	8495.1	8604.9	7824.2	6926.4	6902.0	6841.0	7350.9
52.5°	7504.6	7570.5	8109.6	8714.7	8895.2	8631.7	8053.5	8126.7	8046.2	8687.9
55°	6392.1	6589.7	8056.0	8946.5	9583.2	9544.2	9502.7	9453.9	9449.0	10190.7
57.5°	5887.1	6048.1	7097.2	9202.6	10320.0	10607.9	10876.3	10930.0	10927.5	11822.9
60°	5555.2	5721.2	6709.2	9063.6	10947.0	12001.0	12515.8	12523.1	12508.5	13567.3
62.5°	4906.3	5067.3	6038.3	8302.4	11120.3	13286.7	14433.4	14528.6	13857.6	15070.2
65°	4125.6	4257.3	5113.7	7138.6	10659.2	14104.0	15875.3	15763.1	14994.5	15929.0
67°	3374.1	3462.0	4296.4	6128.6	9453.9	13711.2	16292.5	16385.2	15519.1	15965.5
67.5°	3159.4	3240.0	4028.0	5784.6	8995.3	13413.6	16307.1	16292.5	15528.8	15972.9
70°	2193.3	2227.5	2744.7	3979.2	6626.3	11332.5	15116.5	15150.7	14877.4	15106.8
72.5°	1454.1	1505.3	1834.7	2508.0	3906.0	8246.3	12635.3	13001.3	12828.1	12386.5
75°	936.9	966.1	1200.3	1493.1	1922.5	4696.5	9334.4	9578.4	9180.7	7660.7
77.5°	524.5	556.3	724.6	907.6	936.9	1954.2	5243.0	5545.5	4698.9	3254.6
80°	326.9	368.4	546.5	539.2	446.5	717.3	2161.6	2315.3	1878.6	1119.8
82.5°	246.4	278.1	422.1	378.2	251.3	319.6	810.0	868.5	688.0	431.8
85°	168.3	212.3	305.0	234.2	131.7	153.7	322.0	346.4	314.7	209.8
87.5°	61.0	90.3	158.6	117.1	58.6	46.4	104.9	117.1	112.2	95.1
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°
3237.5	0°	3237.5	3237.5	3237.5	3237.5	3237.5	3237.5	3237.5	3237.5	3237.5	3237.5
3266.8	2.5°	3313.1	3347.3	3364.4	3464.4	3505.9	3498.6	3508.3	3523.0	3537.6	3557.1
3308.3	5°	3340.0	3444.9	3501.0	3618.1	3696.2	3662.0	3705.9	3693.7	3676.7	3674.2
3383.9	7.5°	3427.8	3562.0	3730.3	3762.1	3796.2	3710.8	3637.6	3537.6	3513.2	3427.8
3447.3	10°	3584.0	3693.7	3898.7	3910.9	3759.6	3540.0	3376.6	3169.2	3166.8	3042.3
3544.9	12.5°	3732.8	3857.2	4023.1	3952.4	3591.3	3291.2	3025.3	2798.4	2703.2	2639.8
3603.5	15°	3825.5	4030.4	4118.3	3813.3	3296.1	2891.1	2547.1	2303.1	2205.5	2159.2
3676.7	17.5°	3910.9	4196.3	4157.3	3569.3	2932.5	2478.8	2068.9	1856.6	1829.8	1795.6
3793.8	20°	4028.0	4257.3	4018.2	3252.2	2520.2	1946.9	1685.8	1583.4	1607.8	1622.4
3806.0	22.5°	4137.8	4289.0	3842.6	2905.7	1990.8	1541.9	1412.6	1434.6	1471.2	1519.9
3835.2	25°	4186.6	4340.3	3605.9	2427.5	1515.1	1297.9	1268.7	1305.3	1366.2	1368.7
3876.7	27.5°	4218.3	4303.7	3320.5	1961.5	1197.9	1134.5	1178.4	1205.2	1212.5	1241.8
3964.6	30°	4274.4	4228.0	2959.4	1402.8	1005.2	1007.6	1063.7	1063.7	1063.7	1085.7
4052.4	32.5°	4372.0	4176.8	2537.3	1024.7	866.1	944.2	929.5	924.7	914.9	888.1
4164.6	35°	4433.0	4037.7	2003.0	758.8	778.3	866.1	861.2	785.6	658.7	595.3
4450.1	37.5°	4559.8	3967.0	1473.6	585.5	727.0	827.1	800.2	617.2	478.2	417.2
4803.8	40°	4833.1	3920.6	1019.8	512.3	692.9	807.5	714.8	527.0	366.0	258.6
5350.3	42.5°	5167.3	3923.1	692.9	483.1	695.3	849.0	688.0	451.3	258.6	207.4
6079.8	45°	5616.2	3886.5	475.7	483.1	739.2	917.3	705.1	409.9	251.3	263.5
6994.7	47.5°	6099.3	3918.2	353.8	439.2	746.6	919.8	644.1	402.6	241.5	305.0
7990.1	50°	6662.9	3949.9	292.8	405.0	749.0	890.5	592.9	392.8	251.3	322.0
9131.9	52.5°	7243.5	4049.9	248.9	383.0	778.3	878.3	592.9	407.4	251.3	280.6
10586.0	55°	8109.6	4306.1	358.6	478.2	885.6	958.8	729.5	570.9	351.3	361.1
11979.0	57.5°	9066.0	4569.6	400.1	502.6	910.0	863.7	785.6	629.4	370.8	373.3
13062.3	60°	9695.5	4579.4	397.7	490.4	851.5	746.6	768.5	663.6	378.2	319.6
13733.2	62.5°	9946.8	4281.7	414.8	490.4	792.9	697.8	788.0	714.8	390.4	400.1
13923.5	65°	9661.3	3666.9	400.1	439.2	697.8	624.6	792.9	724.6	427.0	402.6
13581.9	67°	9214.8	3159.4	407.4	417.2	649.0	592.9	834.4	761.2	495.3	483.1
13403.8	67.5°	9088.0	3025.3	405.0	405.0	631.9	583.1	844.1	761.2	505.0	500.1
11830.2	70°	8009.6	2451.9	414.8	400.1	558.7	553.8	897.8	802.7	580.7	585.5
8690.3	72.5°	6096.9	1859.1	412.3	400.1	485.5	529.4	905.1	829.5	631.9	585.5
4867.2	75°	3464.4	1112.5	363.5	348.9	383.0	461.1	846.6	790.5	614.8	524.5
1944.5	77.5°	1432.1	573.3	334.2	314.7	317.2	375.7	705.1	736.8	585.5	446.5
649.0	80°	534.3	344.0	268.4	251.3	244.0	275.7	502.6	588.0	500.1	366.0
285.4	82.5°	278.1	214.7	183.0	183.0	165.9	175.7	270.8	390.4	378.2	251.3
114.7	85°	141.5	122.0	104.9	102.5	92.7	83.0	136.6	231.8	217.1	139.1
51.2	87.5°	75.6	68.3	43.9	41.5	34.2	22.0	24.4	46.4	75.6	61.0
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>
3237.5
3576.6
3696.2
3457.1
3037.5
2625.1
2149.4
1812.7
1605.3
1493.1
1393.1
1268.7
1110.1
873.4
624.6
414.8
251.3
202.5
268.4
339.1
373.3
287.9
380.6
361.1
329.4
405.0
395.2
475.7
490.4
541.6
519.7
468.4
422.1
334.2
197.6
114.7
43.9
0.0

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