

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: P477807

Luminaire Tested: **IFLD-S-SA3C-750-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477807
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-750-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (48) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

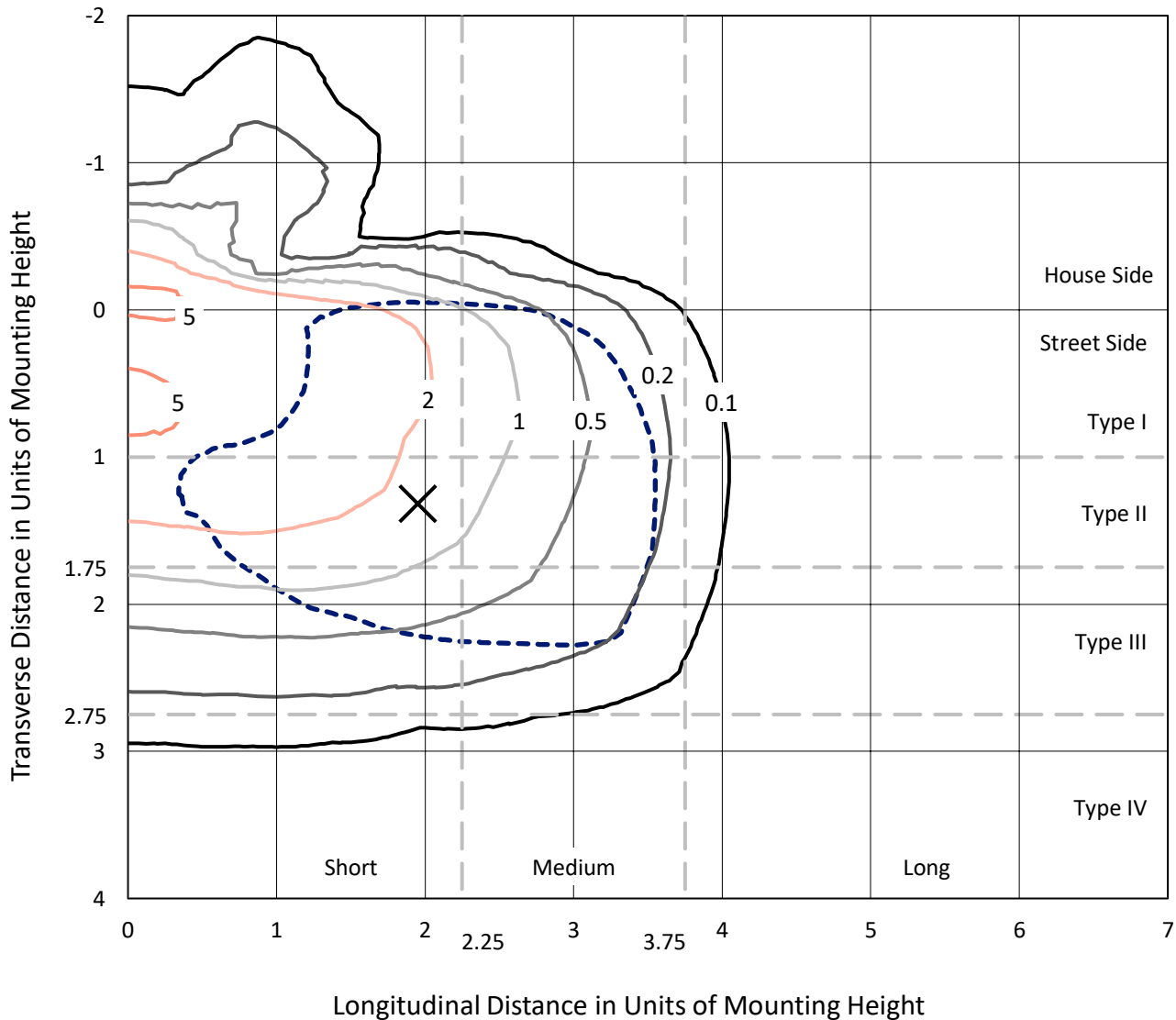
Lumens per Lamp: N/A
Luminaire Lumens: 21283.5 lumens
Efficiency: N/A
Efficacy: 132.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

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

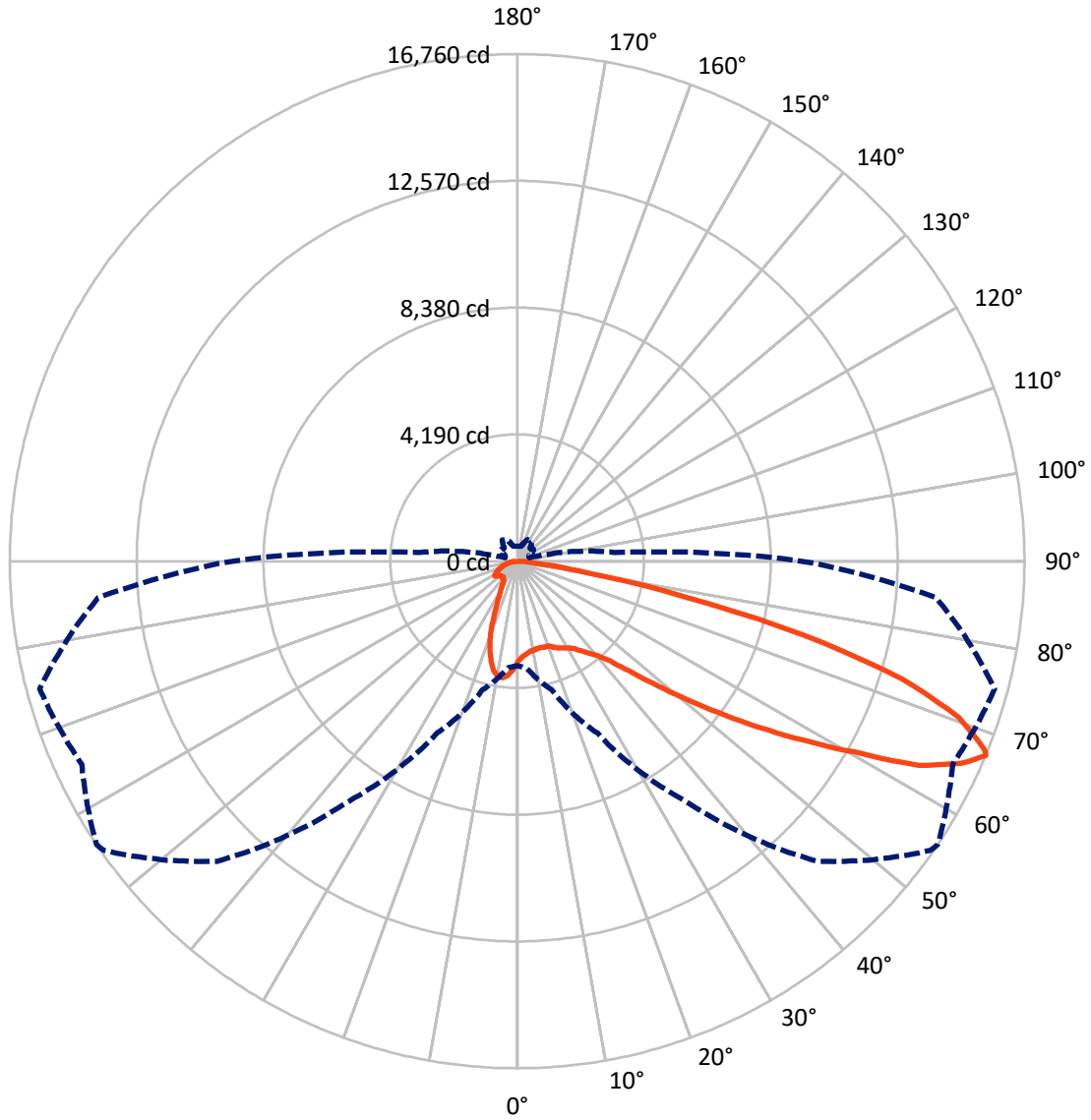
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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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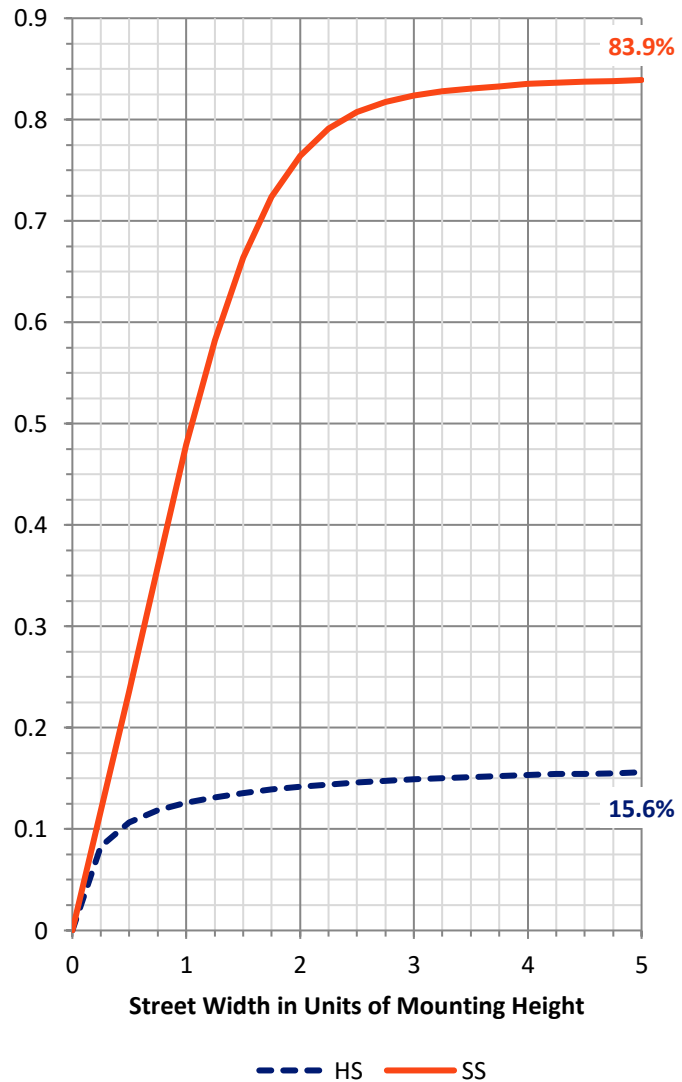
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3369.4	0.0	3369.4
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	17914.1	0.0	17914.1
	% Fixture	84.2	0.0	84.2
Total	Lumens	21283.5	0.0	21283.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	319.0	1.5
10°-20°	870.4	4.1
20°-30°	1365.0	6.4
30°-40°	1948.5	9.2
40°-50°	2940.9	13.8
50°-60°	4681.4	22.0
60°-70°	5984.9	28.1
70°-80°	2918.0	13.7
80°-90°	255.3	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°	21283.5	100.0
0°-180°	21283.5	100.0

Coefficient of Utilization



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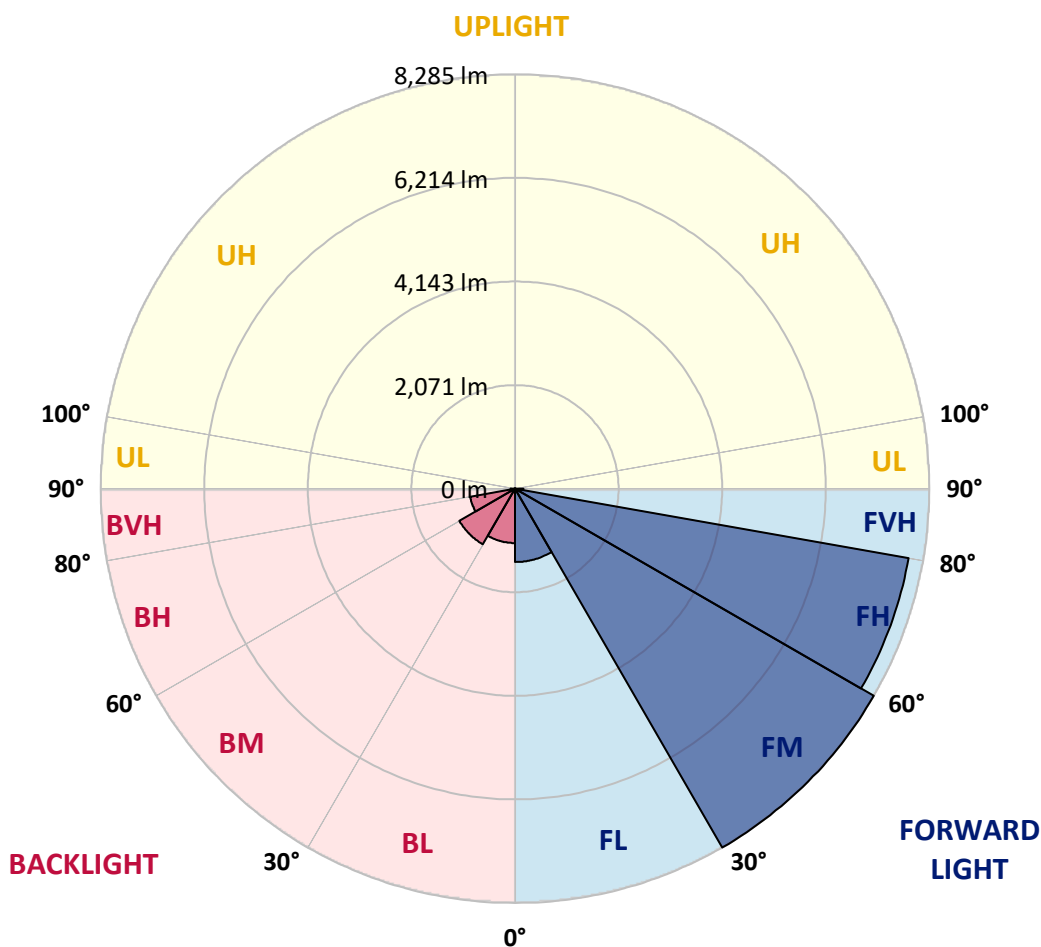
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1466.7	6.9			
FM (30°-60°)	8285.5	38.9			
FH (60°-80°)	7992.4	37.6			G4/12000
FVH (80°-90°)	169.5	0.8			G2/225
BL (0°-30°)	1087.7	5.1	B3/2500		
BM (30°-60°)	1285.5	6.0	B2/2500		
BH (60°-80°)	910.5	4.3	B2/1000		G2/1000
BVH (80°-90°)	85.7	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°	3311.7	3311.7	3311.7	3311.7	3311.7	3311.7	3311.7	3311.7	3311.7	3311.7
2.5°	3042.1	3029.6	3044.6	3029.6	3097.0	3137.0	3149.4	3166.9	3229.3	3289.2
5°	2914.9	2859.9	2919.8	2939.8	2944.8	3012.2	3082.1	3094.5	3127.0	3224.3
7.5°	2702.7	2765.1	2742.7	2802.6	2864.9	2932.3	3047.1	3014.7	3134.5	3226.8
10°	2657.8	2662.8	2687.8	2710.2	2765.1	2852.5	3012.2	2992.2	3114.5	3311.7
12.5°	2702.7	2702.7	2695.2	2677.8	2740.2	2825.0	2952.3	2962.3	3154.4	3336.6
15°	2859.9	2889.9	2810.0	2822.5	2797.6	2825.0	2937.3	2959.8	3169.4	3356.6
17.5°	3244.3	3234.3	3139.5	3007.2	2897.4	2879.9	2957.3	2982.2	3154.4	3414.0
20°	3618.6	3598.6	3433.9	3296.7	3079.6	2977.2	2989.7	2992.2	3179.4	3451.4
22.5°	4035.4	4087.8	3908.1	3628.6	3359.1	3104.5	3054.6	3094.5	3236.8	3471.4
25°	4689.2	4576.9	4422.2	4055.3	3621.1	3301.7	3161.9	3181.9	3291.7	3521.3
27.5°	5160.9	5116.0	4873.9	4576.9	3988.0	3456.4	3219.3	3256.7	3391.5	3518.8
30°	5615.1	5615.1	5467.8	5023.6	4374.8	3715.9	3341.6	3324.1	3344.1	3513.8
32.5°	6146.6	6074.3	5862.1	5567.7	4861.4	3953.0	3438.9	3443.9	3443.9	3606.1
35°	6426.2	6543.4	6401.2	5922.0	5233.3	4347.3	3673.5	3636.1	3608.6	3708.5
37.5°	6835.4	6905.3	6755.6	6473.6	5694.9	4666.8	3880.6	3850.7	3691.0	3788.3
40°	7082.5	7070.0	7065.0	6935.3	6306.4	5043.6	4185.1	4107.7	3893.1	4070.3
42.5°	7222.2	7197.3	7504.2	7424.4	6882.8	5597.6	4566.9	4524.5	4287.4	4571.9
45°	7379.5	7564.1	7816.2	8040.8	7554.2	6376.2	5213.3	5153.4	4941.3	5303.1
47.5°	7516.7	7743.8	8065.8	8305.3	8160.6	7222.2	6011.9	6026.9	5887.1	6258.9
50°	7746.3	7768.8	8205.5	8689.7	8802.0	8003.4	7085.0	7060.0	6997.6	7519.2
52.5°	7676.4	7743.8	8295.4	8914.3	9098.9	8829.4	8238.0	8312.8	8230.5	8886.8
55°	6538.5	6740.6	8240.4	9151.3	9802.7	9762.8	9720.3	9670.4	9665.4	10424.1
57.5°	6021.9	6186.6	7259.7	9413.4	10556.4	10850.8	11125.4	11180.3	11177.8	12093.6
60°	5682.5	5852.2	6862.9	9271.1	11197.7	12275.8	12802.4	12809.9	12794.9	13878.0
62.5°	5018.6	5183.3	6176.6	8492.5	11374.9	13591.0	14763.9	14861.3	14175.0	15415.3
65°	4220.0	4354.8	5230.8	7302.1	10903.2	14427.0	16238.8	16124.0	15337.9	16293.7
67°	3451.4	3541.2	4394.7	6268.9	9670.4	14025.2	16665.6	16760.4	15874.5	16331.2
67.5°	3231.8	3314.1	4120.2	5917.1	9201.3	13720.8	16680.5	16665.6	15884.4	16338.6
70°	2243.5	2278.5	2807.5	4070.3	6778.0	11592.0	15462.7	15497.6	15218.1	15452.7
72.5°	1487.4	1539.8	1876.7	2565.5	3995.4	8435.1	12924.7	13299.0	13121.8	12670.1
75°	958.3	988.3	1227.8	1527.3	1966.5	4804.0	9548.1	9797.7	9390.9	7836.2
77.5°	536.6	569.0	741.2	928.4	958.3	1999.0	5363.0	5672.5	4806.5	3329.1
80°	334.4	376.8	559.0	551.5	456.7	733.7	2211.1	2368.3	1921.6	1145.5
82.5°	252.1	284.5	431.7	386.8	257.0	326.9	828.5	888.4	703.8	441.7
85°	172.2	217.1	311.9	239.6	134.8	157.2	329.4	354.4	321.9	214.6
87.5°	62.4	92.3	162.2	119.8	59.9	47.4	107.3	119.8	114.8	97.3
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°
3311.7	0°	3311.7	3311.7	3311.7	3311.7	3311.7	3311.7	3311.7	3311.7	3311.7	3311.7
3341.6	2.5°	3389.0	3424.0	3441.4	3543.7	3586.2	3578.7	3588.7	3603.6	3618.6	3638.6
3384.0	5°	3416.5	3523.8	3581.2	3701.0	3780.8	3745.9	3790.8	3778.3	3760.9	3758.4
3461.4	7.5°	3506.3	3643.6	3815.8	3848.2	3883.1	3795.8	3720.9	3618.6	3593.7	3506.3
3526.3	10°	3666.0	3778.3	3988.0	4000.4	3845.7	3621.1	3453.9	3241.8	3239.3	3112.0
3626.1	12.5°	3818.3	3945.5	4115.2	4042.9	3673.5	3366.6	3094.5	2862.4	2765.1	2700.2
3686.0	15°	3913.1	4122.7	4212.6	3900.6	3371.5	2957.3	2605.4	2355.8	2256.0	2208.6
3760.9	17.5°	4000.4	4292.4	4252.5	3651.1	2999.7	2535.5	2116.3	1899.1	1871.7	1836.8
3880.6	20°	4120.2	4354.8	4110.2	3326.6	2577.9	1991.5	1724.5	1619.6	1644.6	1659.6
3893.1	22.5°	4232.5	4387.3	3930.6	2972.3	2036.4	1577.2	1444.9	1467.4	1504.8	1554.8
3923.1	25°	4282.4	4439.7	3688.5	2483.1	1549.8	1327.7	1297.7	1335.1	1397.5	1400.0
3965.5	27.5°	4314.9	4402.2	3396.5	2006.5	1225.3	1160.5	1205.4	1232.8	1240.3	1270.3
4055.3	30°	4372.3	4324.9	3027.2	1435.0	1028.2	1030.7	1088.1	1088.1	1088.1	1110.5
4145.2	32.5°	4472.1	4272.5	2595.4	1048.1	885.9	965.8	950.8	945.8	935.8	908.4
4260.0	35°	4534.5	4130.2	2048.9	776.1	796.1	885.9	880.9	803.6	673.8	608.9
4552.0	37.5°	4664.3	4057.8	1507.3	598.9	743.7	846.0	818.6	631.4	489.1	426.7
4913.8	40°	4943.8	4010.4	1043.2	524.1	708.7	826.0	731.2	539.0	374.3	264.5
5472.8	42.5°	5285.7	4012.9	708.7	494.1	711.2	868.5	703.8	461.7	264.5	212.1
6219.0	45°	5744.9	3975.5	486.6	494.1	756.2	938.3	721.2	419.3	257.0	269.5
7154.9	47.5°	6239.0	4007.9	361.9	449.2	763.7	940.8	658.8	411.8	247.1	311.9
8173.1	50°	6815.5	4040.4	299.5	414.3	766.1	910.9	606.4	401.8	257.0	329.4
9341.0	52.5°	7409.4	4142.7	254.6	391.8	796.1	898.4	606.4	416.8	257.0	287.0
10828.4	55°	8295.4	4404.7	366.9	489.1	905.9	980.8	746.2	584.0	359.4	369.3
12253.4	57.5°	9273.6	4674.2	409.3	514.1	930.9	883.4	803.6	643.9	379.3	381.8
13361.4	60°	9917.5	4684.2	406.8	501.6	871.0	763.7	786.1	678.8	386.8	326.9
14047.7	62.5°	10174.5	4379.8	424.3	501.6	811.1	713.7	806.1	731.2	399.3	409.3
14242.3	65°	9882.5	3750.9	409.3	449.2	713.7	638.9	811.1	741.2	436.7	411.8
13893.0	67°	9425.9	3231.8	416.8	426.7	663.8	606.4	853.5	778.6	506.6	494.1
13710.8	67.5°	9296.1	3094.5	414.3	414.3	646.4	596.4	863.5	778.6	516.6	511.6
12101.1	70°	8193.0	2508.1	424.3	409.3	571.5	566.5	918.4	821.1	594.0	598.9
8889.3	72.5°	6236.5	1901.6	421.8	409.3	496.6	541.5	925.9	848.5	646.4	598.9
4978.7	75°	3543.7	1138.0	371.8	356.9	391.8	471.7	866.0	808.6	628.9	536.6
1989.0	77.5°	1464.9	586.5	341.9	321.9	324.4	384.3	721.2	753.7	598.9	456.7
663.8	80°	546.5	351.9	274.5	257.0	249.6	282.0	514.1	601.4	511.6	374.3
292.0	82.5°	284.5	219.6	187.2	187.2	169.7	179.7	277.0	399.3	386.8	257.0
117.3	85°	144.7	124.8	107.3	104.8	94.8	84.9	139.8	237.1	222.1	142.2
52.4	87.5°	77.4	69.9	44.9	42.4	34.9	22.5	25.0	47.4	77.4	62.4
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>
3311.7
3658.5
3780.8
3536.3
3107.0
2685.3
2198.6
1854.2
1642.1
1527.3
1425.0
1297.7
1135.5
893.4
638.9
424.3
257.0
207.1
274.5
346.9
381.8
294.5
389.3
369.3
336.9
414.3
404.3
486.6
501.6
554.0
531.6
479.2
431.7
341.9
202.1
117.3
44.9
0.0

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