

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: P477905

Luminaire Tested: **IFLD-M-SA4C-827-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477905
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-827-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens
Light Source: (64) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

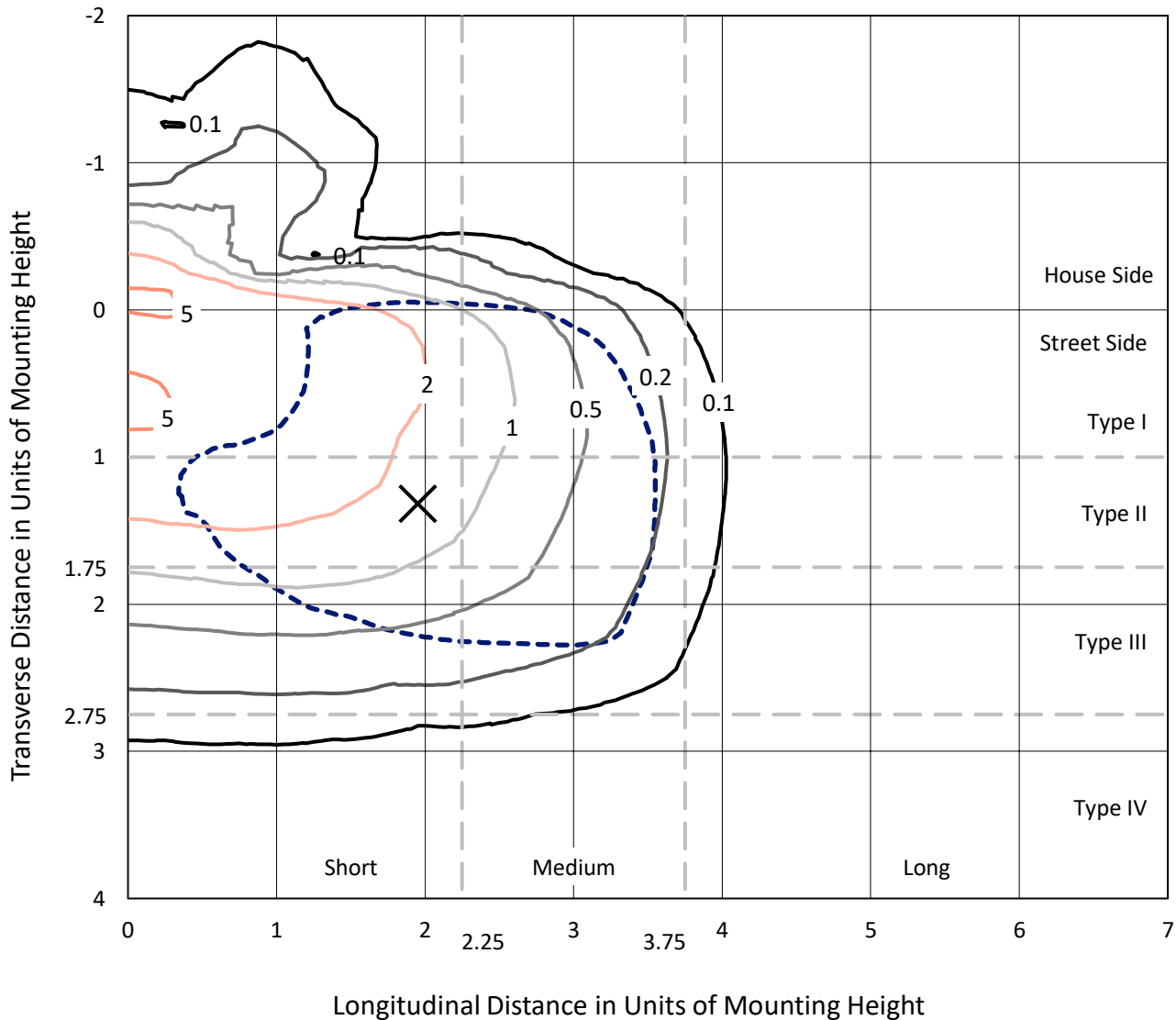
Lumens per Lamp: N/A
Luminaire Lumens: 20530.1 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 218.1
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

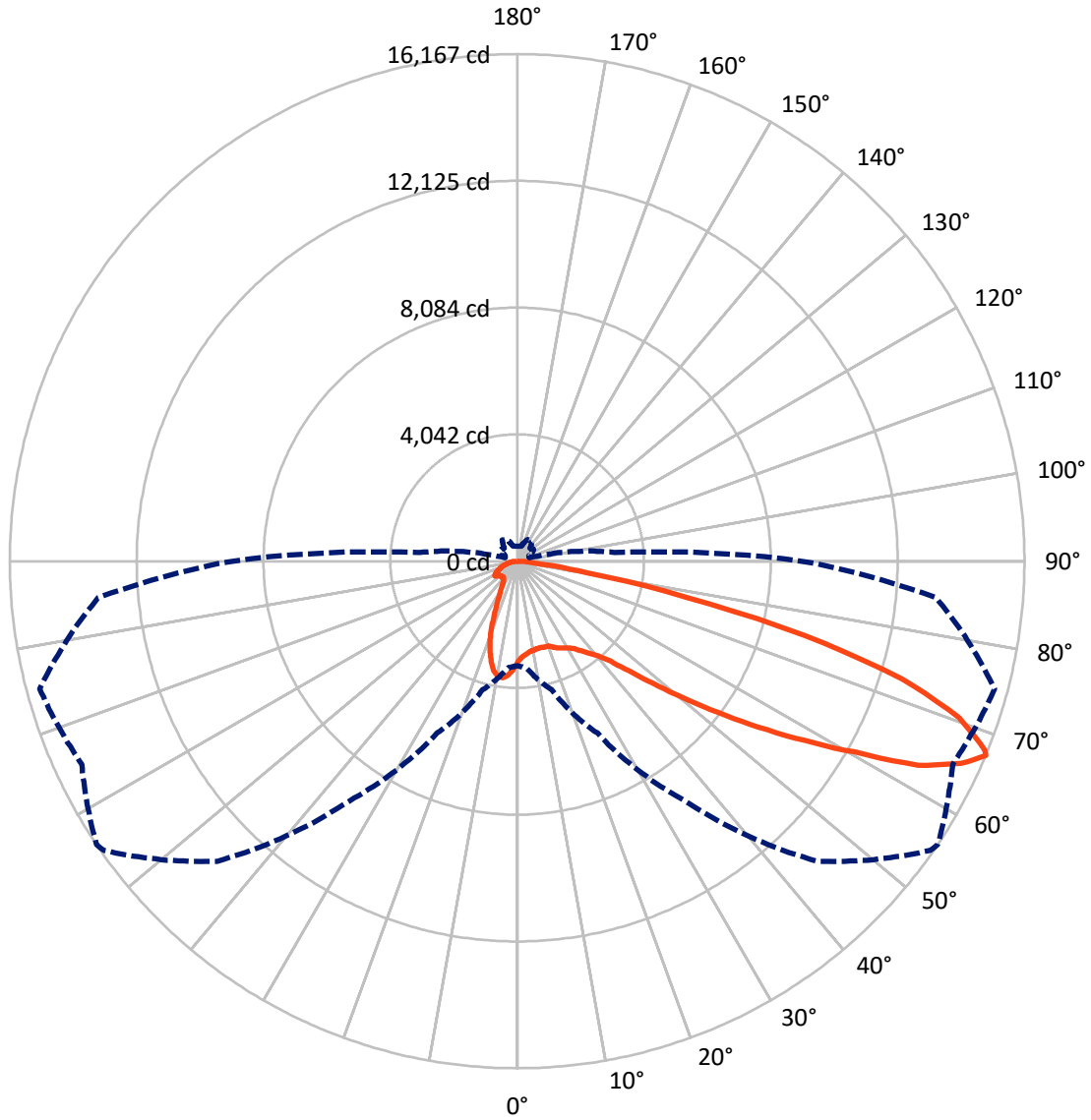
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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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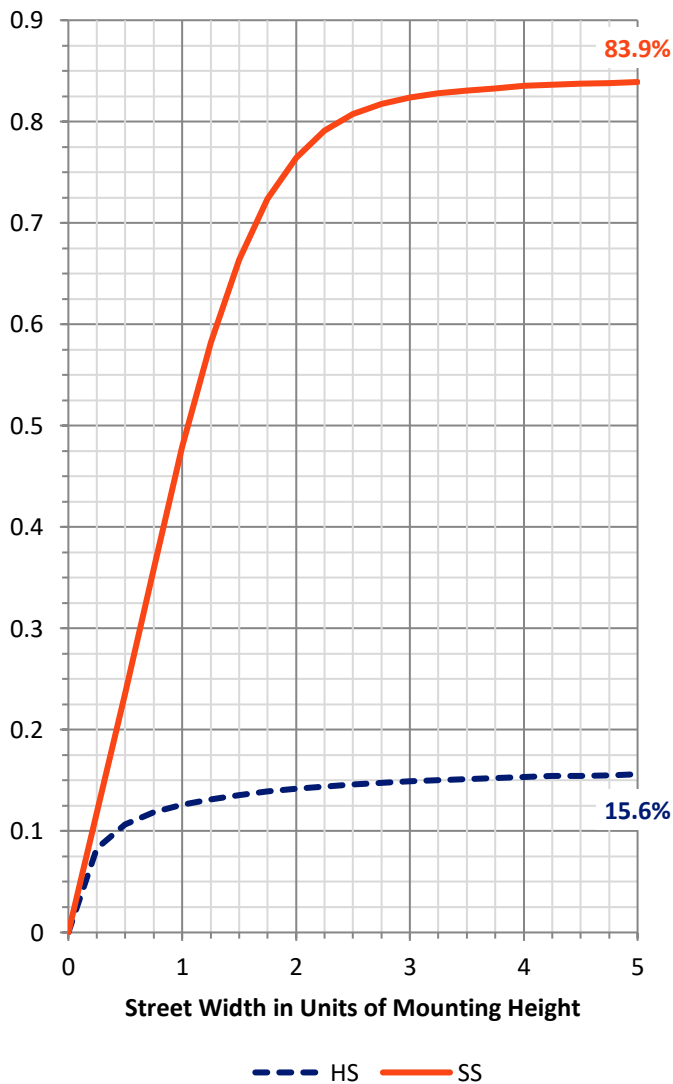
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3250.1	0.0	3250.1
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	17280.0	0.0	17280.0
	% Fixture	84.2	0.0	84.2
Total	Lumens	20530.1	0.0	20530.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.7	1.5
10°-20°	839.6	4.1
20°-30°	1316.7	6.4
30°-40°	1879.6	9.2
40°-50°	2836.8	13.8
50°-60°	4515.7	22.0
60°-70°	5773.0	28.1
70°-80°	2814.7	13.7
80°-90°	246.2	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°	20530.1	100.0
0°-180°	20530.1	100.0

Coefficient of Utilization

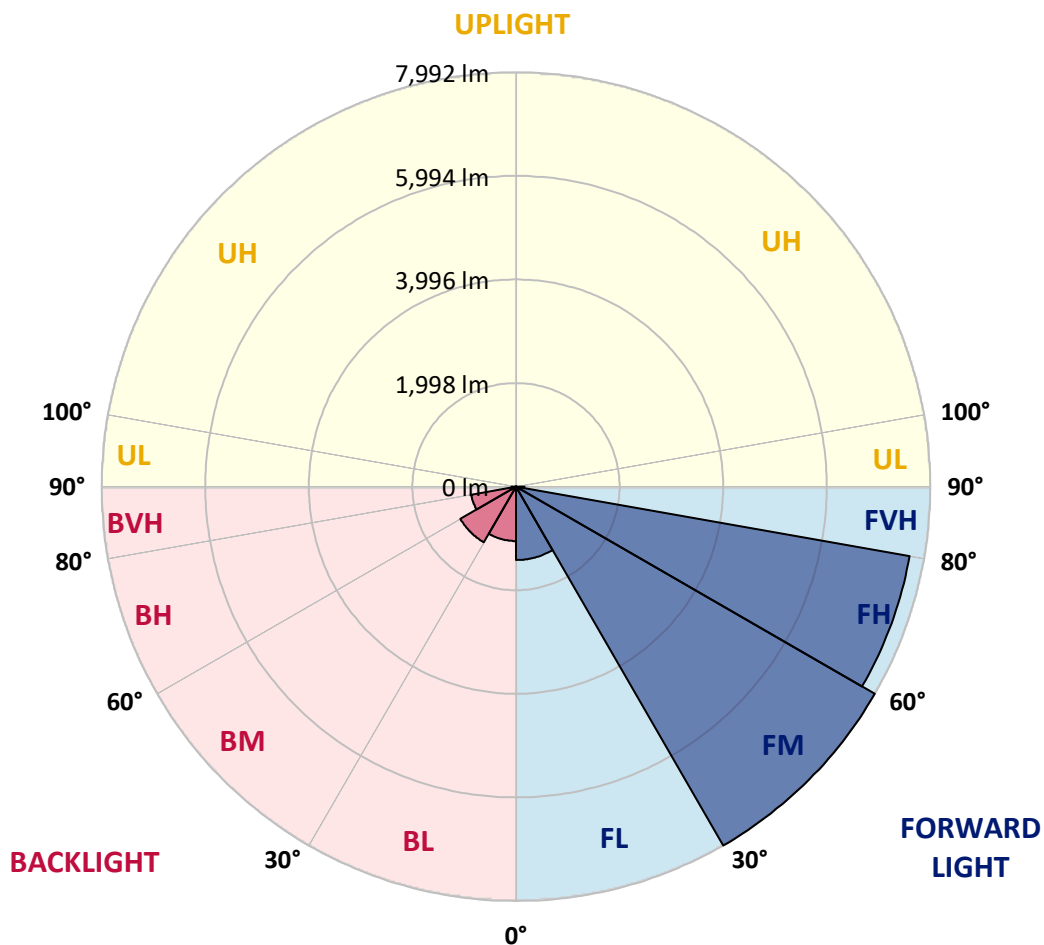


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1414.8	6.9			
FM (30°-60°)	7992.2	38.9			
FH (60°-80°)	7709.5	37.6			G4/12000
FVH (80°-90°)	163.5	0.8			G2/225
BL (0°-30°)	1049.2	5.1	B3/2500		
BM (30°-60°)	1240.0	6.0	B2/2500		
BH (60°-80°)	878.2	4.3	B2/1000		G2/1000
BVH (80°-90°)	82.7	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°	3194.4	3194.4	3194.4	3194.4	3194.4	3194.4	3194.4	3194.4	3194.4	3194.4
2.5°	2934.5	2922.4	2936.9	2922.4	2987.4	3025.9	3038.0	3054.8	3115.0	3172.8
5°	2811.7	2758.7	2816.5	2835.8	2840.6	2905.6	2973.0	2985.0	3016.3	3110.2
7.5°	2607.1	2667.2	2645.6	2703.4	2763.5	2828.5	2939.3	2908.0	3023.5	3112.6
10°	2563.7	2568.5	2592.6	2614.3	2667.2	2751.5	2905.6	2886.3	3004.3	3194.4
12.5°	2607.1	2607.1	2599.8	2583.0	2643.2	2725.0	2847.8	2857.4	3042.8	3218.5
15°	2758.7	2787.6	2710.6	2722.6	2698.5	2725.0	2833.3	2855.0	3057.2	3237.8
17.5°	3129.4	3119.8	3028.3	2900.7	2794.8	2778.0	2852.6	2876.7	3042.8	3293.1
20°	3490.5	3471.3	3312.4	3180.0	2970.6	2871.9	2883.9	2886.3	3066.8	3329.2
22.5°	3892.5	3943.1	3769.8	3500.2	3240.2	2994.6	2946.5	2985.0	3122.2	3348.5
25°	4523.2	4414.9	4265.7	3911.8	3492.9	3184.8	3050.0	3069.3	3175.2	3396.6
27.5°	4978.2	4934.9	4701.4	4414.9	3846.8	3334.1	3105.4	3141.5	3271.5	3394.2
30°	5416.3	5416.3	5274.3	4845.8	4219.9	3584.4	3223.3	3206.5	3225.7	3389.4
32.5°	5929.1	5859.3	5654.7	5370.6	4689.3	3813.1	3317.2	3322.0	3322.0	3478.5
35°	6198.7	6311.8	6174.6	5712.4	5048.0	4193.4	3543.5	3507.4	3480.9	3577.2
37.5°	6593.5	6660.9	6516.5	6244.4	5493.4	4501.6	3743.3	3714.4	3560.3	3654.2
40°	6831.8	6819.8	6815.0	6689.8	6083.1	4865.1	4037.0	3962.4	3755.3	3926.2
42.5°	6966.6	6942.5	7238.6	7161.6	6639.2	5399.5	4405.3	4364.4	4135.7	4410.1
45°	7118.3	7296.4	7539.5	7756.2	7286.8	6150.5	5028.8	4971.0	4766.4	5115.4
47.5°	7250.7	7469.7	7780.3	8011.4	7871.7	6966.6	5799.1	5813.5	5678.7	6037.4
50°	7472.1	7493.8	7915.1	8382.1	8490.4	7720.1	6834.2	6810.1	6750.0	7253.1
52.5°	7404.7	7469.7	8001.7	8598.7	8776.9	8516.9	7946.4	8018.6	7939.1	8572.3
55°	6307.0	6502.0	7948.8	8827.4	9455.7	9417.2	9376.3	9328.1	9323.3	10055.1
57.5°	5808.7	5967.6	7002.7	9080.2	10182.7	10466.8	10731.6	10784.5	10782.1	11665.6
60°	5481.3	5645.0	6620.0	8943.0	10801.4	11841.3	12349.2	12356.5	12342.0	13386.8
62.5°	4841.0	4999.9	5958.0	8191.9	10972.3	13109.9	14241.4	14335.2	13673.2	14869.6
65°	4070.7	4200.7	5045.6	7043.6	10517.3	13916.4	15664.0	15553.3	14795.0	15717.0
67°	3329.2	3415.9	4239.2	6047.0	9328.1	13528.8	16075.7	16167.2	15312.6	15753.1
67.5°	3117.4	3196.8	3974.4	5707.6	8875.6	13235.1	16090.1	16075.7	15322.2	15760.3
70°	2164.1	2197.8	2708.2	3926.2	6538.1	11181.7	14915.4	14949.1	14679.5	14905.8
72.5°	1434.7	1485.3	1810.3	2474.7	3854.0	8136.5	12467.2	12828.3	12657.4	12221.7
75°	924.4	953.3	1184.4	1473.2	1896.9	4634.0	9210.2	9450.9	9058.5	7558.8
77.5°	517.6	548.9	715.0	895.5	924.4	1928.2	5173.2	5471.7	4636.4	3211.3
80°	322.6	363.5	539.2	532.0	440.5	707.7	2132.8	2284.5	1853.6	1104.9
82.5°	243.1	274.4	416.5	373.1	247.9	315.4	799.2	857.0	678.8	426.1
85°	166.1	209.4	300.9	231.1	130.0	151.7	317.8	341.8	310.5	207.0
87.5°	60.2	89.1	156.5	115.5	57.8	45.7	103.5	115.5	110.7	93.9
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°
3194.4	0°	3194.4	3194.4	3194.4	3194.4	3194.4	3194.4	3194.4	3194.4	3194.4	3194.4
3223.3	2.5°	3269.1	3302.8	3319.6	3418.3	3459.2	3452.0	3461.6	3476.1	3490.5	3509.8
3264.2	5°	3295.5	3399.1	3454.4	3570.0	3647.0	3613.3	3656.6	3644.6	3627.7	3625.3
3338.9	7.5°	3382.2	3514.6	3680.7	3712.0	3745.7	3661.4	3589.2	3490.5	3466.5	3382.2
3401.5	10°	3536.3	3644.6	3846.8	3858.8	3709.6	3492.9	3331.6	3127.0	3124.6	3001.9
3497.7	12.5°	3683.1	3805.9	3969.6	3899.8	3543.5	3247.4	2985.0	2761.1	2667.2	2604.7
3555.5	15°	3774.6	3976.8	4063.5	3762.5	3252.2	2852.6	2513.2	2272.5	2176.2	2130.4
3627.7	17.5°	3858.8	4140.5	4102.0	3521.8	2893.5	2445.8	2041.4	1831.9	1805.4	1771.7
3743.3	20°	3974.4	4200.7	3964.8	3208.9	2486.7	1921.0	1663.4	1562.3	1586.4	1600.8
3755.3	22.5°	4082.7	4232.0	3791.4	2867.0	1964.3	1521.4	1393.8	1415.5	1451.6	1499.7
3784.2	25°	4130.9	4282.5	3557.9	2395.2	1494.9	1280.7	1251.8	1287.9	1348.1	1350.5
3825.1	27.5°	4162.2	4246.4	3276.3	1935.4	1182.0	1119.4	1162.7	1189.2	1196.4	1225.3
3911.8	30°	4217.5	4171.8	2920.0	1384.2	991.8	994.2	1049.6	1049.6	1049.6	1071.2
3998.5	32.5°	4313.8	4121.2	2503.6	1011.0	854.6	931.6	917.2	912.4	902.7	876.2
4109.2	35°	4374.0	3984.0	1976.4	748.7	767.9	854.6	849.8	775.1	650.0	587.4
4390.8	37.5°	4499.2	3914.2	1454.0	577.7	717.4	816.1	789.6	609.0	471.8	411.6
4739.9	40°	4768.8	3868.5	1006.2	505.5	683.7	796.8	705.3	520.0	361.1	255.2
5279.1	42.5°	5098.6	3870.9	683.7	476.6	686.1	837.7	678.8	445.3	255.2	204.6
5998.9	45°	5541.5	3834.8	469.4	476.6	729.4	905.1	695.7	404.4	247.9	260.0
6901.6	47.5°	6018.2	3866.1	349.1	433.3	736.6	907.5	635.5	397.2	238.3	300.9
7883.8	50°	6574.2	3897.4	288.9	399.6	739.0	878.6	585.0	387.6	247.9	317.8
9010.4	52.5°	7147.2	3996.1	245.5	377.9	767.9	866.6	585.0	402.0	247.9	276.8
10445.1	55°	8001.7	4248.8	353.9	471.8	873.8	946.1	719.8	563.3	346.6	356.3
11819.6	57.5°	8945.4	4508.8	394.8	495.9	897.9	852.2	775.1	621.1	365.9	368.3
12888.5	60°	9566.5	4518.4	392.4	483.9	840.1	736.6	758.3	654.8	373.1	315.4
13550.5	62.5°	9814.4	4224.7	409.2	483.9	782.4	688.5	777.5	705.3	385.2	394.8
13738.2	65°	9532.7	3618.1	394.8	433.3	688.5	616.3	782.4	715.0	421.3	397.2
13401.2	67°	9092.2	3117.4	402.0	411.6	640.3	585.0	823.3	751.1	488.7	476.6
13225.5	67.5°	8967.0	2985.0	399.6	399.6	623.5	575.3	832.9	751.1	498.3	493.5
11672.8	70°	7903.0	2419.3	409.2	394.8	551.3	546.4	885.9	792.0	572.9	577.7
8574.7	72.5°	6015.7	1834.3	406.8	394.8	479.0	522.4	893.1	818.5	623.5	577.7
4802.5	75°	3418.3	1097.7	358.7	344.2	377.9	455.0	835.3	780.0	606.6	517.6
1918.6	77.5°	1413.1	565.7	329.8	310.5	312.9	370.7	695.7	727.0	577.7	440.5
640.3	80°	527.2	339.4	264.8	247.9	240.7	272.0	495.9	580.1	493.5	361.1
281.6	82.5°	274.4	211.8	180.5	180.5	163.7	173.3	267.2	385.2	373.1	247.9
113.1	85°	139.6	120.4	103.5	101.1	91.5	81.8	134.8	228.7	214.2	137.2
50.6	87.5°	74.6	67.4	43.3	40.9	33.7	21.7	24.1	45.7	74.6	60.2
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>
3194.4
3529.0
3647.0
3411.1
2997.0
2590.2
2120.8
1788.6
1584.0
1473.2
1374.5
1251.8
1095.3
861.8
616.3
409.2
247.9
199.8
264.8
334.6
368.3
284.1
375.5
356.3
325.0
399.6
390.0
469.4
483.9
534.4
512.7
462.2
416.5
329.8
195.0
113.1
43.3
0.0

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