

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: P477319

Luminaire Tested: **IFLD-M-SA4B-730-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477319
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-730-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

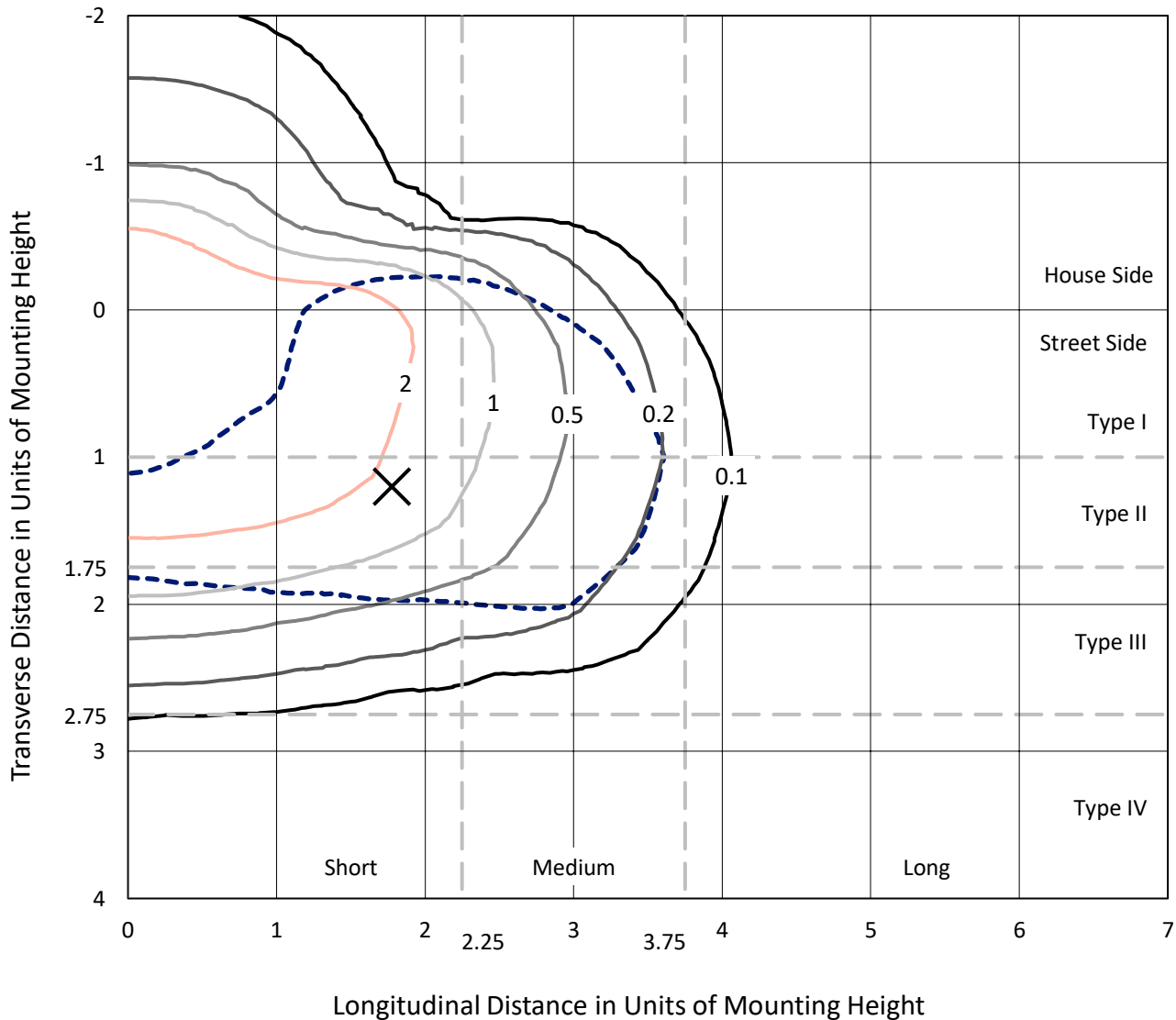
Lumens per Lamp: N/A
Luminaire Lumens: 21182.8 lumens
Efficiency: N/A
Efficacy: 127.5 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 166.1
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

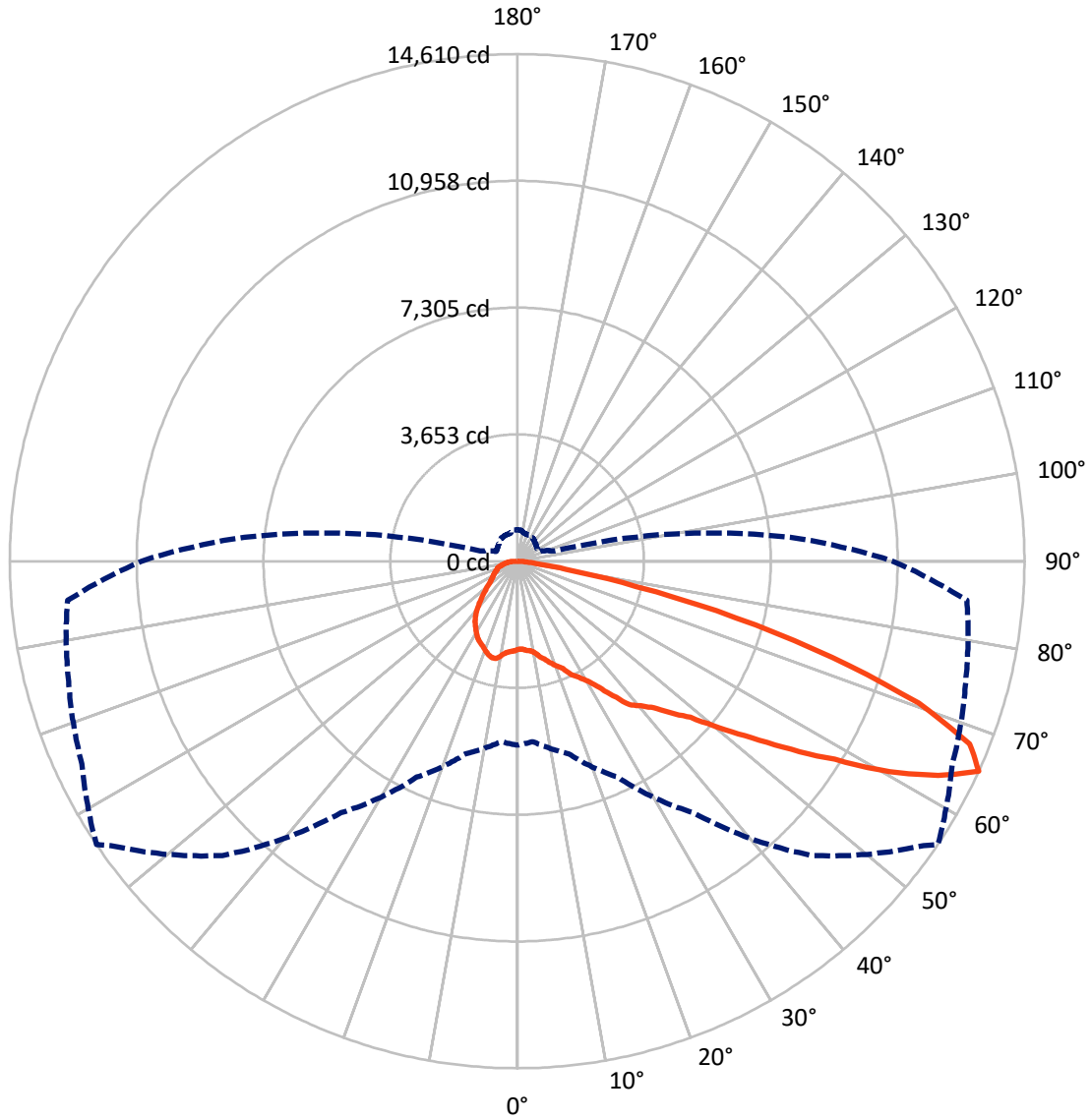
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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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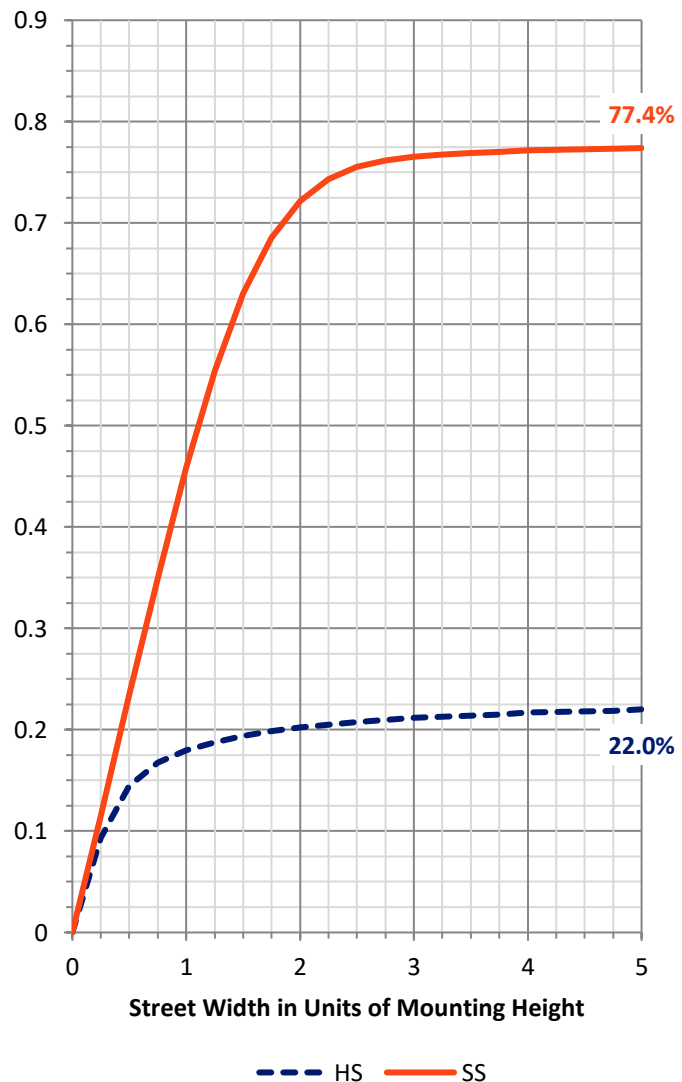
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4750.6	0.0	4750.6
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	16432.2	0.0	16432.2
	% Fixture	77.6	0.0	77.6
Total	Lumens	21182.8	0.0	21182.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.0	1.2
10°-20°	818.1	3.9
20°-30°	1456.7	6.9
30°-40°	2181.4	10.3
40°-50°	3232.1	15.3
50°-60°	4980.1	23.5
60°-70°	5638.2	26.6
70°-80°	2339.9	11.0
80°-90°	284.3	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°	21182.8	100.0
0°-180°	21182.8	100.0

Coefficient of Utilization

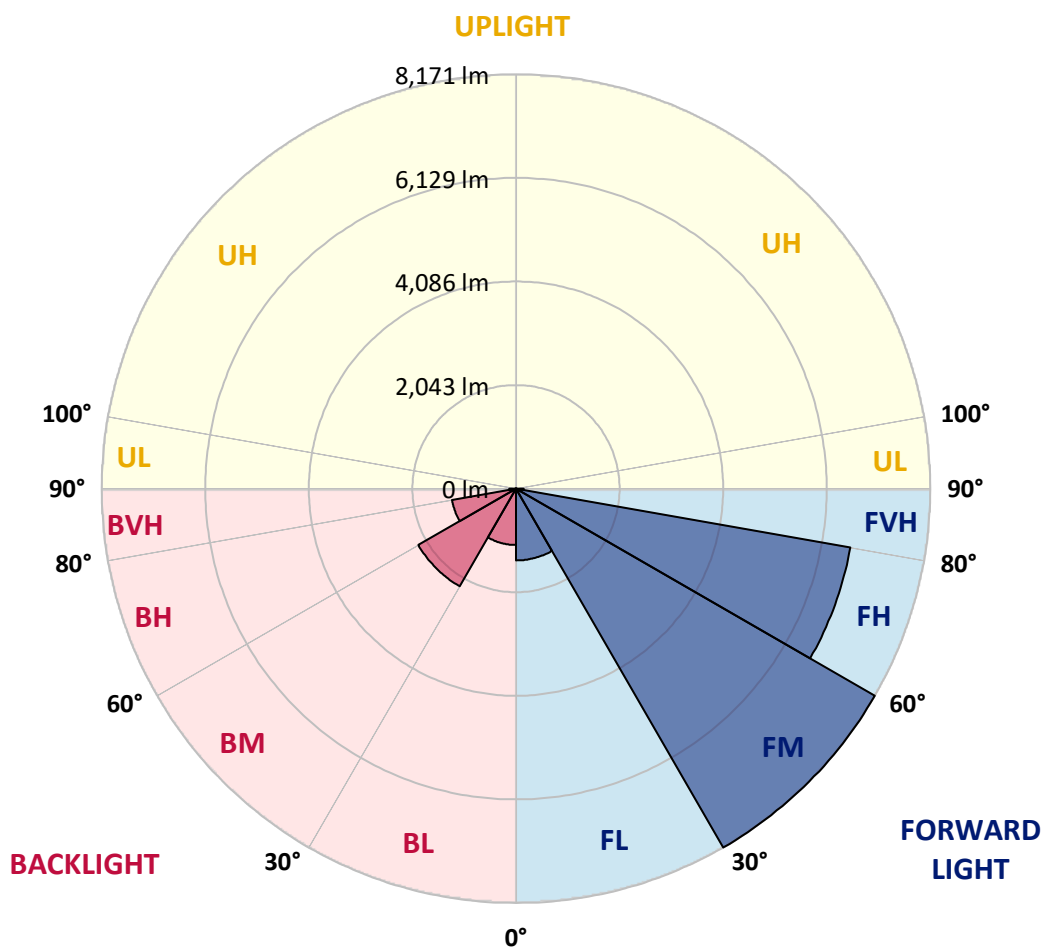


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1415.6	6.7			
FM (30°-60°)	8171.4	38.6			
FH (60°-80°)	6695.2	31.6			G3/7500
FVH (80°-90°)	150.0	0.7			G2/225
BL (0°-30°)	1111.2	5.2	B3/2500		
BM (30°-60°)	2222.3	10.5	B2/2500		
BH (60°-80°)	1282.8	6.1	B3/2500		G3/2500
BVH (80°-90°)	134.3	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°	2542.5	2542.5	2542.5	2542.5	2542.5	2542.5	2542.5	2542.5	2542.5	2542.5
2.5°	2476.0	2489.3	2480.5	2507.1	2529.2	2529.2	2547.0	2533.7	2551.4	2575.8
5°	2558.1	2504.9	2533.7	2547.0	2540.3	2551.4	2533.7	2578.0	2549.2	2595.7
7.5°	2578.0	2598.0	2622.3	2600.2	2620.1	2609.0	2611.3	2604.6	2589.1	2626.8
10°	2724.3	2695.5	2750.9	2717.7	2713.2	2708.8	2699.9	2666.7	2704.4	2706.6
12.5°	2892.8	2866.2	2864.0	2837.4	2872.8	2808.5	2821.8	2804.1	2810.8	2819.6
15°	3014.7	3003.6	3054.6	3023.6	2977.0	2948.2	2979.2	2930.5	2954.8	2950.4
17.5°	3256.3	3254.1	3216.4	3165.4	3138.8	3096.7	3090.1	3070.1	3087.8	3079.0
20°	3424.8	3449.2	3455.8	3396.0	3294.0	3247.4	3236.4	3220.8	3240.8	3234.1
22.5°	3681.9	3644.2	3673.0	3568.9	3531.2	3420.3	3380.4	3358.3	3453.6	3429.2
25°	3845.9	3885.8	3857.0	3821.6	3737.3	3599.9	3571.1	3619.8	3657.5	3630.9
27.5°	4216.1	4176.2	4149.6	4043.2	3987.8	3843.7	3810.5	3792.7	3801.6	3817.1
30°	4497.7	4519.8	4460.0	4384.6	4245.0	4098.7	4021.1	4005.5	3974.5	3947.9
32.5°	4898.9	4865.6	4830.2	4781.4	4661.7	4468.8	4393.5	4335.8	4242.7	4118.6
35°	5091.7	5187.0	5160.4	5029.7	4938.8	4865.6	4843.5	4754.8	4677.2	4482.1
37.5°	5413.1	5453.0	5415.4	5373.2	5331.1	5253.5	5226.9	5251.3	5098.4	4777.0
40°	5621.5	5705.7	5783.3	5665.8	5657.0	5672.5	5508.5	5479.6	5164.9	4996.4
42.5°	6047.1	6082.6	6098.1	6093.7	6144.7	6144.7	5832.1	5770.0	5546.1	5408.7
45°	6610.2	6639.0	6694.4	6734.3	6676.7	6705.5	6259.9	6235.5	6036.0	6009.4
47.5°	7097.8	7166.5	7290.7	7408.2	7483.5	7386.0	6898.3	6725.4	6674.4	6834.0
50°	7523.4	7441.4	7731.8	7851.5	8181.8	8343.6	7603.2	7534.5	7452.5	7758.4
52.5°	7565.5	7676.4	8086.5	8325.9	9006.4	9305.6	8467.7	8438.9	8339.2	8691.6
55°	7867.0	7853.7	8266.0	8784.7	9593.8	10097.0	9593.8	9576.1	9358.8	9693.6
57.5°	7816.0	7951.2	8277.1	9002.0	10123.6	10946.0	10899.4	10777.5	10473.8	10746.5
60°	7643.1	7678.6	8075.4	8995.3	10431.7	11817.1	12309.3	12333.6	11713.0	11930.2
62.5°	6663.4	6745.4	7248.6	8288.2	10212.3	12417.9	13685.8	13599.4	13102.8	12854.6
65°	5300.1	5218.1	5741.2	6865.1	8846.8	11992.3	14288.8	14610.2	13829.9	13375.5
67.5°	3249.7	3229.7	3732.9	4723.8	6619.0	10205.6	13807.7	14058.2	13628.2	13264.6
70°	1673.6	1622.6	1937.4	2635.6	4160.7	7488.0	12016.6	12262.7	12672.8	11896.9
72.5°	780.3	769.2	937.7	1296.8	2119.2	4402.3	9305.6	9483.0	10347.5	10030.5
75°	458.9	465.5	560.8	678.3	1033.0	2074.8	6175.7	6519.3	7456.9	7228.6
77.5°	343.6	343.6	399.0	472.2	602.9	802.4	3047.9	3502.4	4360.2	3921.3
80°	252.7	257.1	305.9	354.7	419.0	414.5	1210.3	1418.7	1999.4	1709.1
82.5°	197.3	203.9	237.2	263.8	294.8	250.5	496.5	534.2	822.4	653.9
85°	137.4	141.9	186.2	179.6	179.6	139.7	206.2	217.2	325.9	310.3
87.5°	33.3	37.7	90.9	99.8	75.4	42.1	64.3	73.2	117.5	135.2
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°
2542.5	0°	2542.5	2542.5	2542.5	2542.5	2542.5	2542.5	2542.5	2542.5	2542.5	2542.5
2586.9	2.5°	2553.6	2562.5	2600.2	2580.2	2591.3	2544.8	2582.4	2551.4	2578.0	2564.7
2606.8	5°	2624.6	2604.6	2626.8	2611.3	2611.3	2629.0	2655.6	2635.6	2675.5	2657.8
2622.3	7.5°	2653.4	2655.6	2668.9	2671.1	2660.0	2715.4	2717.7	2711.0	2748.7	2739.8
2728.7	10°	2724.3	2726.5	2750.9	2764.2	2753.1	2773.1	2750.9	2733.2	2731.0	2722.1
2813.0	12.5°	2837.4	2859.5	2855.1	2866.2	2868.4	2784.2	2733.2	2646.7	2635.6	2646.7
2937.1	15°	2941.5	2932.7	2937.1	2959.3	2866.2	2731.0	2640.1	2566.9	2571.4	2573.6
3098.9	17.5°	3065.7	3072.3	3079.0	2977.0	2806.3	2646.7	2566.9	2566.9	2544.8	2553.6
3212.0	20°	3207.5	3180.9	3123.3	2979.2	2702.1	2549.2	2524.8	2524.8	2498.2	2480.5
3333.9	22.5°	3318.4	3265.2	3178.7	2910.5	2609.0	2511.5	2451.7	2409.5	2378.5	2343.0
3469.1	25°	3389.3	3360.5	3192.0	2839.6	2540.3	2411.8	2323.1	2258.8	2218.9	2172.4
3575.5	27.5°	3497.9	3442.5	3229.7	2757.6	2465.0	2312.0	2174.6	2074.8	1999.4	1950.7
3737.3	30°	3644.2	3564.4	3203.1	2640.1	2349.7	2139.1	1977.3	1848.7	1762.3	1722.4
3890.3	32.5°	3763.9	3659.7	3180.9	2533.7	2221.1	1964.0	1749.0	1618.2	1569.4	1518.4
4147.4	35°	3992.2	3786.1	3165.4	2473.8	2105.9	1788.9	1562.8	1449.7	1387.6	1312.3
4300.4	37.5°	4167.4	4005.5	3127.7	2349.7	1957.3	1618.2	1420.9	1318.9	1225.8	1146.0
4655.0	40°	4442.2	4311.5	3130.0	2174.6	1782.2	1471.9	1310.1	1203.7	1086.2	1017.5
5180.4	42.5°	4958.7	4612.9	3143.3	2034.9	1584.9	1352.2	1210.3	1084.0	966.5	908.8
5778.9	45°	5592.7	5027.4	3061.2	1908.6	1383.2	1239.1	1090.6	964.3	888.9	846.8
6592.4	47.5°	6322.0	5433.1	2950.4	1671.4	1214.7	1119.4	979.8	906.6	851.2	826.8
7640.9	50°	7137.7	6013.9	2919.4	1454.1	1084.0	1017.5	926.6	871.2	833.5	804.7
8822.4	52.5°	8188.4	6690.0	2857.3	1230.3	970.9	935.4	906.6	868.9	835.7	811.3
9924.1	55°	9192.6	7439.2	2790.8	1046.3	891.1	895.5	911.1	877.8	849.0	811.3
11158.8	57.5°	10323.1	8204.0	2544.8	911.1	831.3	875.6	906.6	868.9	840.1	811.3
12422.3	60°	11021.4	8634.0	2063.7	793.6	778.1	837.9	880.0	840.1	809.1	820.2
13003.1	62.5°	11305.1	8407.9	1556.1	720.4	740.4	786.9	837.9	822.4	800.2	842.3
12996.4	65°	10821.9	7887.0	1112.8	658.4	689.4	735.9	800.2	818.0	824.6	906.6
11936.8	67.5°	9629.3	6867.3	818.0	607.4	636.2	704.9	826.8	855.6	851.2	953.2
10017.2	70°	7705.2	5371.0	638.4	565.3	616.2	729.3	864.5	864.5	833.5	953.2
7640.9	72.5°	5606.0	3786.1	549.7	516.5	565.3	669.4	860.1	857.9	818.0	871.2
4865.6	75°	3393.7	2203.4	485.5	467.7	485.5	574.1	822.4	809.1	753.7	749.2
2340.8	77.5°	1691.3	1108.3	396.8	414.5	423.4	481.0	722.6	742.6	667.2	649.5
924.4	80°	713.8	483.2	330.3	356.9	356.9	405.7	600.7	614.0	554.2	520.9
365.8	82.5°	325.9	277.1	281.5	310.3	290.4	314.8	476.6	492.1	450.0	394.6
155.2	85°	137.4	157.4	215.0	243.8	215.0	203.9	328.1	345.8	292.6	243.8
66.5	87.5°	62.1	86.5	135.2	177.3	108.6	95.3	175.1	181.8	146.3	108.6
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>
2542.5
2540.3
2633.4
2726.5
2722.1
2651.2
2604.6
2555.8
2453.9
2323.1
2181.2
1972.8
1744.5
1516.2
1305.6
1148.2
1024.1
913.3
855.6
822.4
809.1
809.1
809.1
809.1
811.3
831.3
906.6
959.8
933.2
840.1
740.4
638.4
509.8
385.7
246.1
102.0
0.0

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