

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: P477726

Luminaire Tested: **IFLD-S-SA2E-735-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477726
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-735-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

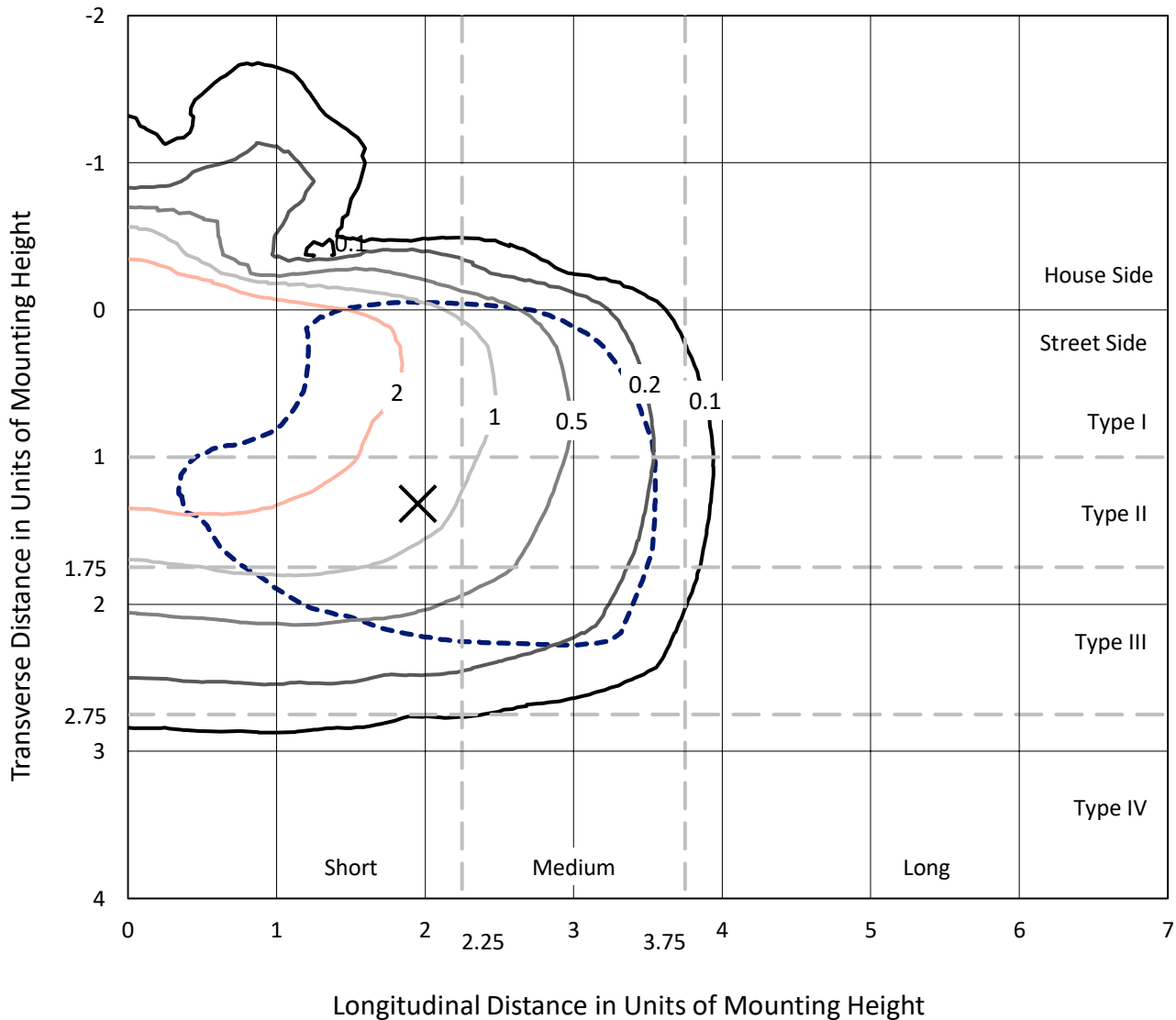
Lumens per Lamp: N/A
Luminaire Lumens: 17535.4 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 156.2
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

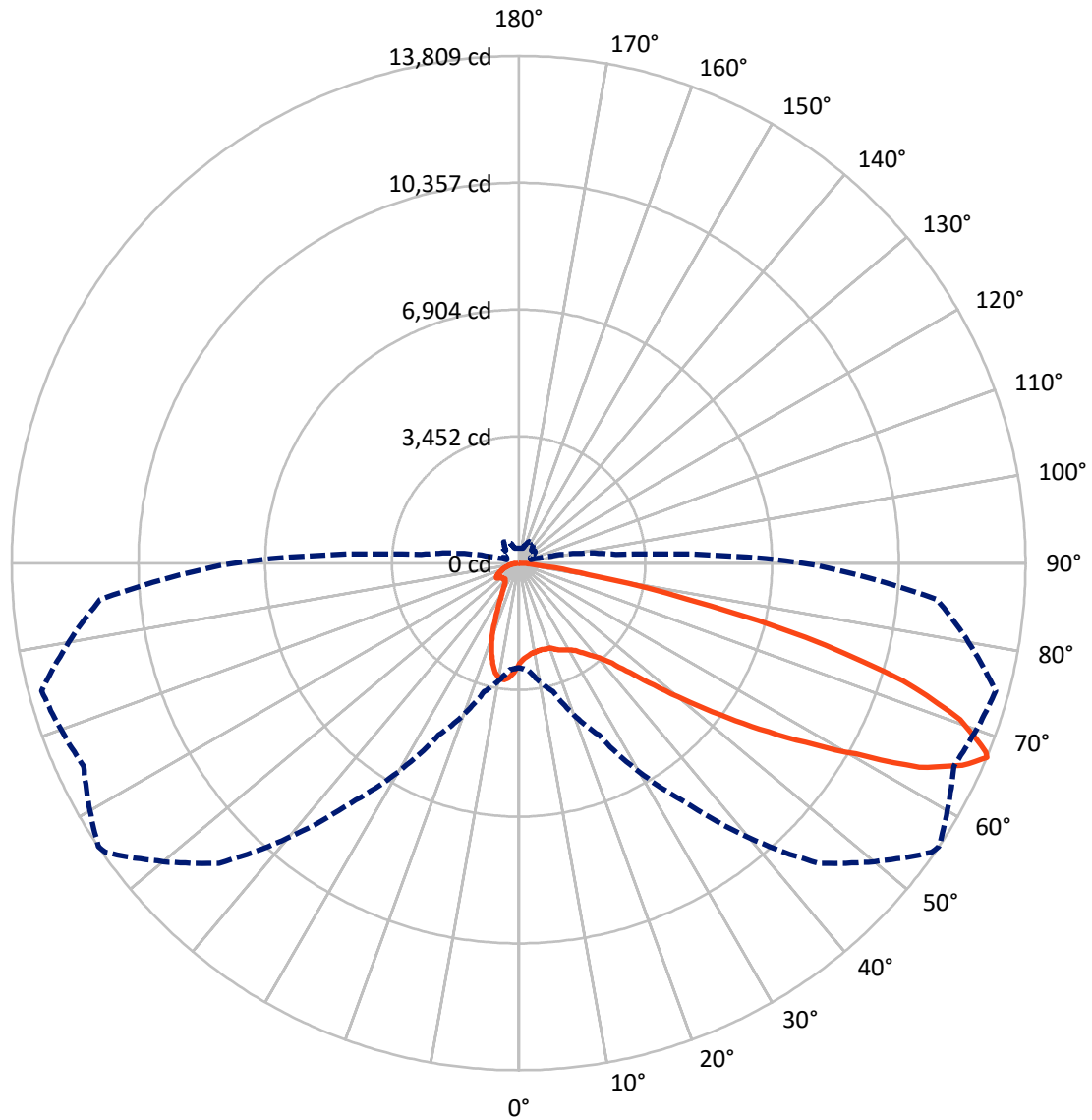
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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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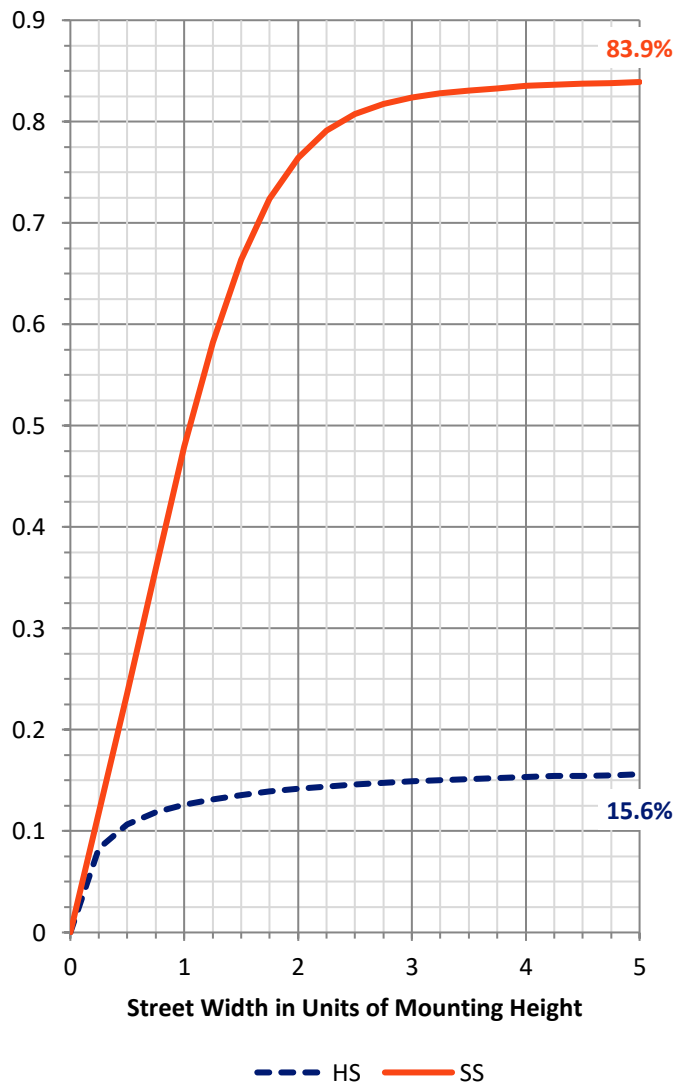
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2776.0	0.0	2776.0
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	14759.3	0.0	14759.3
	% Fixture	84.2	0.0	84.2
Total	Lumens	17535.4	0.0	17535.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.9	1.5
10°-20°	717.1	4.1
20°-30°	1124.6	6.4
30°-40°	1605.4	9.2
40°-50°	2423.0	13.8
50°-60°	3857.0	22.0
60°-70°	4930.9	28.1
70°-80°	2404.1	13.7
80°-90°	210.3	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°	17535.4	100.0
0°-180°	17535.4	100.0

Coefficient of Utilization

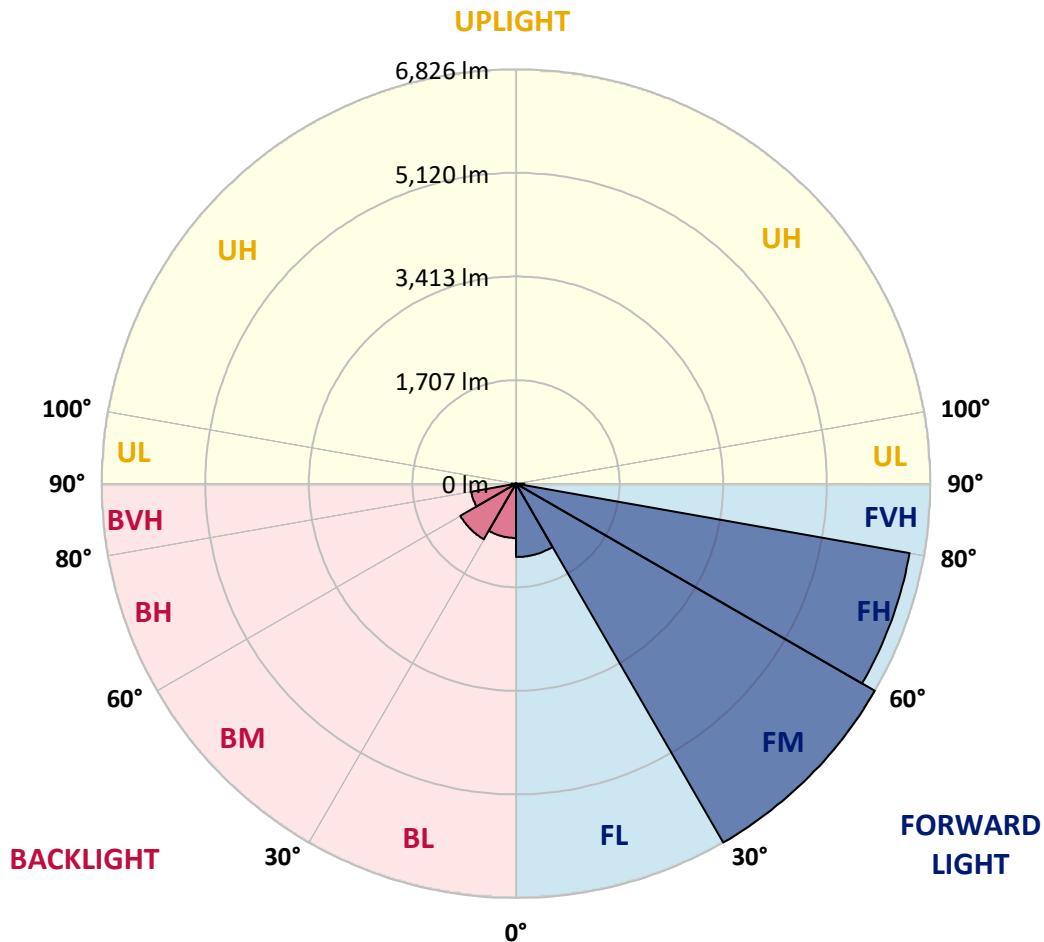


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1208.4	6.9			
FM (30°-60°)	6826.4	38.9			
FH (60°-80°)	6584.9	37.6			G3/7500
FVH (80°-90°)	139.7	0.8			G2/225
BL (0°-30°)	896.2	5.1	B2/1000		
BM (30°-60°)	1059.1	6.0	B2/2500		
BH (60°-80°)	750.1	4.3	B2/1000		G2/1000
BVH (80°-90°)	70.6	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	2728.5	2728.5	2728.5	2728.5	2728.5	2728.5	2728.5	2728.5	2728.5	2728.5
2.5°	2506.4	2496.1	2508.5	2496.1	2551.6	2584.5	2594.8	2609.2	2660.6	2710.0
5°	2401.5	2356.3	2405.6	2422.1	2426.2	2481.7	2539.3	2549.6	2576.3	2656.5
7.5°	2226.8	2278.2	2259.7	2309.0	2360.4	2415.9	2510.5	2483.8	2582.5	2658.6
10°	2189.8	2193.9	2214.4	2232.9	2278.2	2350.1	2481.7	2465.3	2566.0	2728.5
12.5°	2226.8	2226.8	2220.6	2206.2	2257.6	2327.5	2432.4	2440.6	2598.9	2749.0
15°	2356.3	2381.0	2315.2	2325.5	2304.9	2327.5	2420.0	2438.5	2611.3	2765.5
17.5°	2672.9	2664.7	2586.6	2477.6	2387.1	2372.8	2436.5	2457.1	2598.9	2812.8
20°	2981.4	2964.9	2829.2	2716.1	2537.2	2452.9	2463.2	2465.3	2619.5	2843.6
22.5°	3324.7	3367.9	3219.9	2989.6	2767.5	2557.8	2516.7	2549.6	2666.8	2860.0
25°	3863.4	3770.9	3643.4	3341.2	2983.4	2720.2	2605.1	2621.5	2712.0	2901.2
27.5°	4252.0	4215.0	4015.6	3770.9	3285.7	2847.7	2652.4	2683.2	2794.3	2899.1
30°	4626.2	4626.2	4504.9	4139.0	3604.4	3061.5	2753.1	2738.7	2755.2	2895.0
32.5°	5064.2	5004.6	4829.8	4587.2	4005.3	3256.9	2833.3	2837.4	2837.4	2971.1
35°	5294.5	5391.1	5273.9	4879.2	4311.7	3581.7	3026.6	2995.8	2973.1	3055.4
37.5°	5631.7	5689.3	5565.9	5333.6	4692.0	3844.9	3197.3	3172.6	3041.0	3121.2
40°	5835.2	5825.0	5820.8	5713.9	5195.8	4155.4	3448.1	3384.4	3207.5	3353.5
42.5°	5950.4	5929.8	6182.7	6116.9	5670.8	4611.9	3762.7	3727.7	3532.4	3766.8
45°	6079.9	6232.1	6439.7	6624.8	6223.8	5253.4	4295.2	4245.9	4071.1	4369.2
47.5°	6193.0	6380.1	6645.3	6842.7	6723.5	5950.4	4953.2	4965.5	4850.4	5156.7
50°	6382.2	6400.7	6760.5	7159.4	7251.9	6593.9	5837.3	5816.7	5765.3	6195.1
52.5°	6324.6	6380.1	6834.5	7344.4	7496.6	7274.5	6787.2	6848.9	6781.1	7321.8
55°	5387.0	5553.6	6789.3	7539.8	8076.4	8043.5	8008.6	7967.4	7963.3	8588.4
57.5°	4961.4	5097.1	5981.2	7755.6	8697.3	8940.0	9166.1	9211.4	9209.3	9963.9
60°	4681.8	4821.6	5654.3	7638.5	9225.8	10114.0	10547.8	10554.0	10541.7	11434.0
62.5°	4134.8	4270.5	5088.9	6996.9	9371.8	11197.6	12163.9	12244.1	11678.7	12700.6
65°	3476.9	3587.9	4309.6	6016.2	8983.1	11886.4	13379.1	13284.5	12636.9	13424.3
67°	2843.6	2917.6	3620.8	5164.9	7967.4	11555.3	13730.7	13808.8	13078.9	13455.2
67.5°	2662.7	2730.5	3394.6	4875.0	7580.9	11304.5	13743.0	13730.7	13087.1	13461.4
70°	1848.4	1877.2	2313.1	3353.5	5584.4	9550.6	12739.7	12768.4	12538.2	12731.4
72.5°	1225.4	1268.6	1546.2	2113.7	3291.8	6949.7	10648.6	10957.0	10811.0	10438.9
75°	789.5	814.2	1011.6	1258.3	1620.2	3958.0	7866.7	8072.3	7737.1	6456.2
77.5°	442.1	468.8	610.7	764.9	789.5	1646.9	4418.6	4673.5	3960.1	2742.9
80°	275.5	310.5	460.6	454.4	376.3	604.5	1821.7	1951.2	1583.2	943.8
82.5°	207.7	234.4	355.7	318.7	211.8	269.4	682.6	732.0	579.8	363.9
85°	141.9	178.9	257.0	197.4	111.0	129.5	271.4	292.0	265.2	176.8
87.5°	51.4	76.1	133.6	98.7	49.3	39.1	88.4	98.7	94.6	80.2
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°
2728.5	0°	2728.5	2728.5	2728.5	2728.5	2728.5	2728.5	2728.5	2728.5	2728.5	2728.5
2753.1	2.5°	2792.2	2821.0	2835.4	2919.7	2954.6	2948.5	2956.7	2969.0	2981.4	2997.8
2788.1	5°	2814.8	2903.2	2950.5	3049.2	3115.0	3086.2	3123.2	3113.0	3098.6	3096.5
2851.8	7.5°	2888.8	3001.9	3143.8	3170.5	3199.3	3127.3	3065.7	2981.4	2960.8	2888.8
2905.3	10°	3020.4	3113.0	3285.7	3295.9	3168.5	2983.4	2845.7	2670.9	2668.8	2564.0
2987.5	12.5°	3145.8	3250.7	3390.5	3330.9	3026.6	2773.7	2549.6	2358.4	2278.2	2224.7
3036.9	15°	3224.0	3396.7	3470.7	3213.7	2777.8	2436.5	2146.6	1941.0	1858.7	1819.7
3098.6	17.5°	3295.9	3536.5	3503.6	3008.1	2471.4	2089.0	1743.6	1564.7	1542.1	1513.3
3197.3	20°	3394.6	3587.9	3386.4	2740.8	2124.0	1640.8	1420.8	1334.4	1355.0	1367.3
3207.5	22.5°	3487.2	3614.6	3238.4	2448.8	1677.8	1299.5	1190.5	1209.0	1239.8	1281.0
3232.2	25°	3528.3	3657.8	3038.9	2045.8	1276.8	1093.9	1069.2	1100.0	1151.4	1153.5
3267.2	27.5°	3555.0	3627.0	2798.4	1653.1	1009.6	956.1	993.1	1015.7	1021.9	1046.6
3341.2	30°	3602.3	3563.2	2494.1	1182.3	847.1	849.2	896.5	896.5	896.5	915.0
3415.2	32.5°	3684.5	3520.1	2138.4	863.6	729.9	795.7	783.4	779.3	771.0	748.4
3509.8	35°	3736.0	3402.9	1688.1	639.5	655.9	729.9	725.8	662.1	555.1	501.7
3750.3	37.5°	3842.9	3343.2	1241.9	493.5	612.7	697.0	674.4	520.2	403.0	351.6
4048.5	40°	4073.2	3304.2	859.5	431.8	583.9	680.6	602.4	444.1	308.4	217.9
4509.1	42.5°	4354.8	3306.2	583.9	407.1	586.0	715.5	579.8	380.4	217.9	174.8
5123.8	45°	4733.2	3275.4	400.9	407.1	623.0	773.1	594.2	345.4	211.8	222.1
5894.9	47.5°	5140.3	3302.1	298.1	370.1	629.2	775.2	542.8	339.3	203.6	257.0
6733.8	50°	5615.2	3328.8	246.7	341.3	631.2	750.5	499.6	331.0	211.8	271.4
7696.0	52.5°	6104.6	3413.1	209.7	322.8	655.9	740.2	499.6	343.4	211.8	236.5
8921.5	55°	6834.5	3629.0	302.2	403.0	746.4	808.1	614.8	481.1	296.1	304.3
10095.5	57.5°	7640.5	3851.1	337.2	423.6	766.9	727.9	662.1	530.5	312.5	314.6
11008.4	60°	8171.0	3859.3	335.1	413.3	717.6	629.2	647.7	559.3	318.7	269.4
11573.8	62.5°	8382.8	3608.5	349.5	413.3	668.2	588.0	664.1	602.4	329.0	337.2
11734.2	65°	8142.2	3090.3	337.2	370.1	588.0	526.4	668.2	610.7	359.8	339.3
11446.4	67°	7765.9	2662.7	343.4	351.6	546.9	499.6	703.2	641.5	417.4	407.1
11296.3	67.5°	7659.0	2549.6	341.3	341.3	532.5	491.4	711.4	641.5	425.6	421.5
9970.1	70°	6750.2	2066.4	349.5	337.2	470.8	466.7	756.6	676.5	489.4	493.5
7323.9	72.5°	5138.2	1566.8	347.5	337.2	409.2	446.2	762.8	699.1	532.5	493.5
4101.9	75°	2919.7	937.6	306.4	294.0	322.8	388.6	713.5	666.2	518.1	442.1
1638.7	77.5°	1206.9	483.2	281.7	265.2	267.3	316.6	594.2	620.9	493.5	376.3
546.9	80°	450.3	289.9	226.2	211.8	205.6	232.3	423.6	495.5	421.5	308.4
240.6	82.5°	234.4	180.9	154.2	154.2	139.8	148.0	228.2	329.0	318.7	211.8
96.6	85°	119.3	102.8	88.4	86.4	78.1	69.9	115.1	195.3	183.0	117.2
43.2	87.5°	63.7	57.6	37.0	35.0	28.8	18.5	20.6	39.1	63.7	51.4
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>
2728.5
3014.3
3115.0
2913.5
2559.9
2212.4
1811.4
1527.7
1352.9
1258.3
1174.0
1069.2
935.5
736.1
526.4
349.5
211.8
170.7
226.2
285.8
314.6
242.6
320.8
304.3
277.6
341.3
333.1
400.9
413.3
456.5
438.0
394.8
355.7
281.7
166.5
96.6
37.0
0.0

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