

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: P477924

Luminaire Tested: **IFLD-S-SA3C-830-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477924
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-830-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

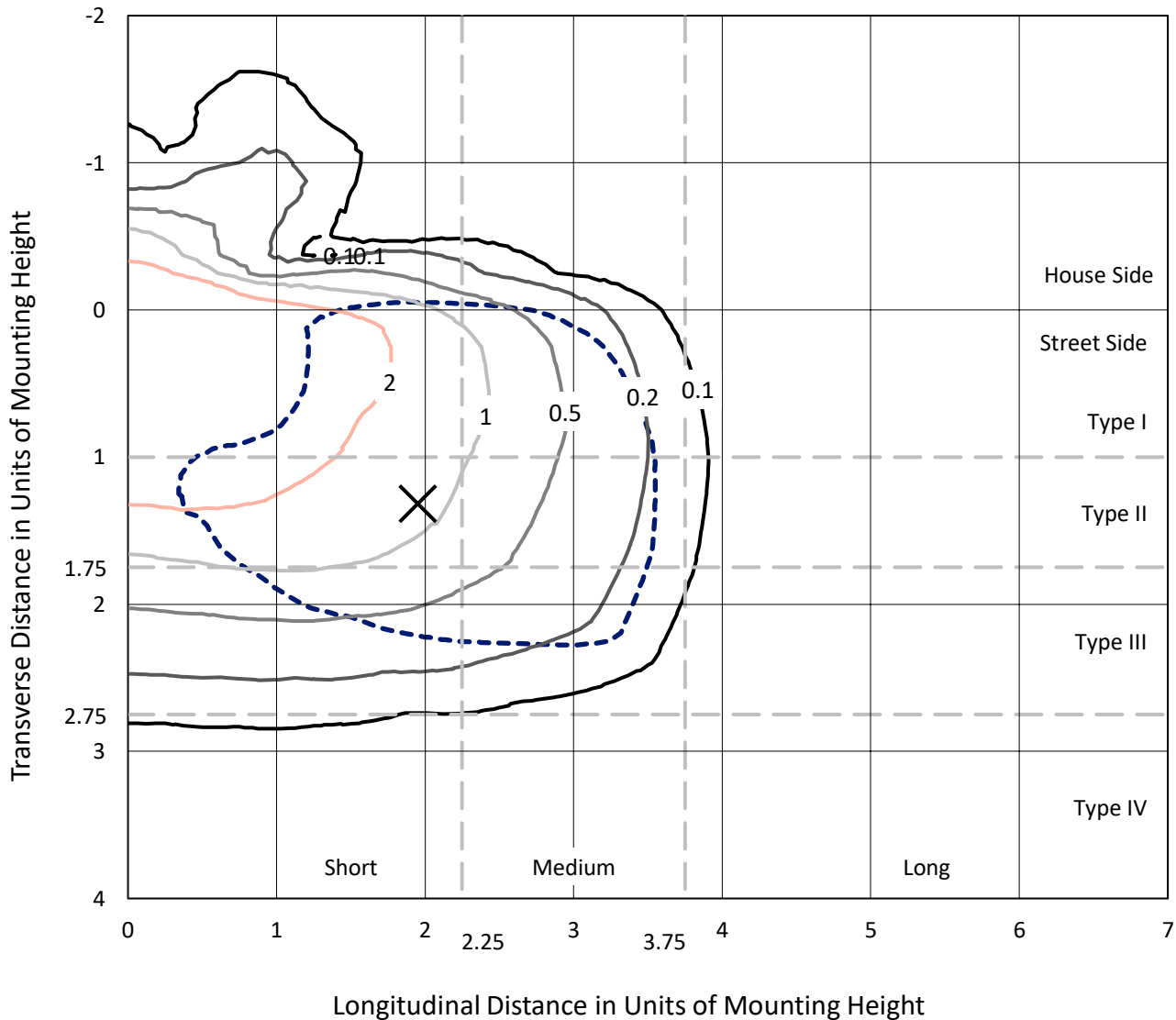
Lumens per Lamp: N/A
Luminaire Lumens: 16533.2 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 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

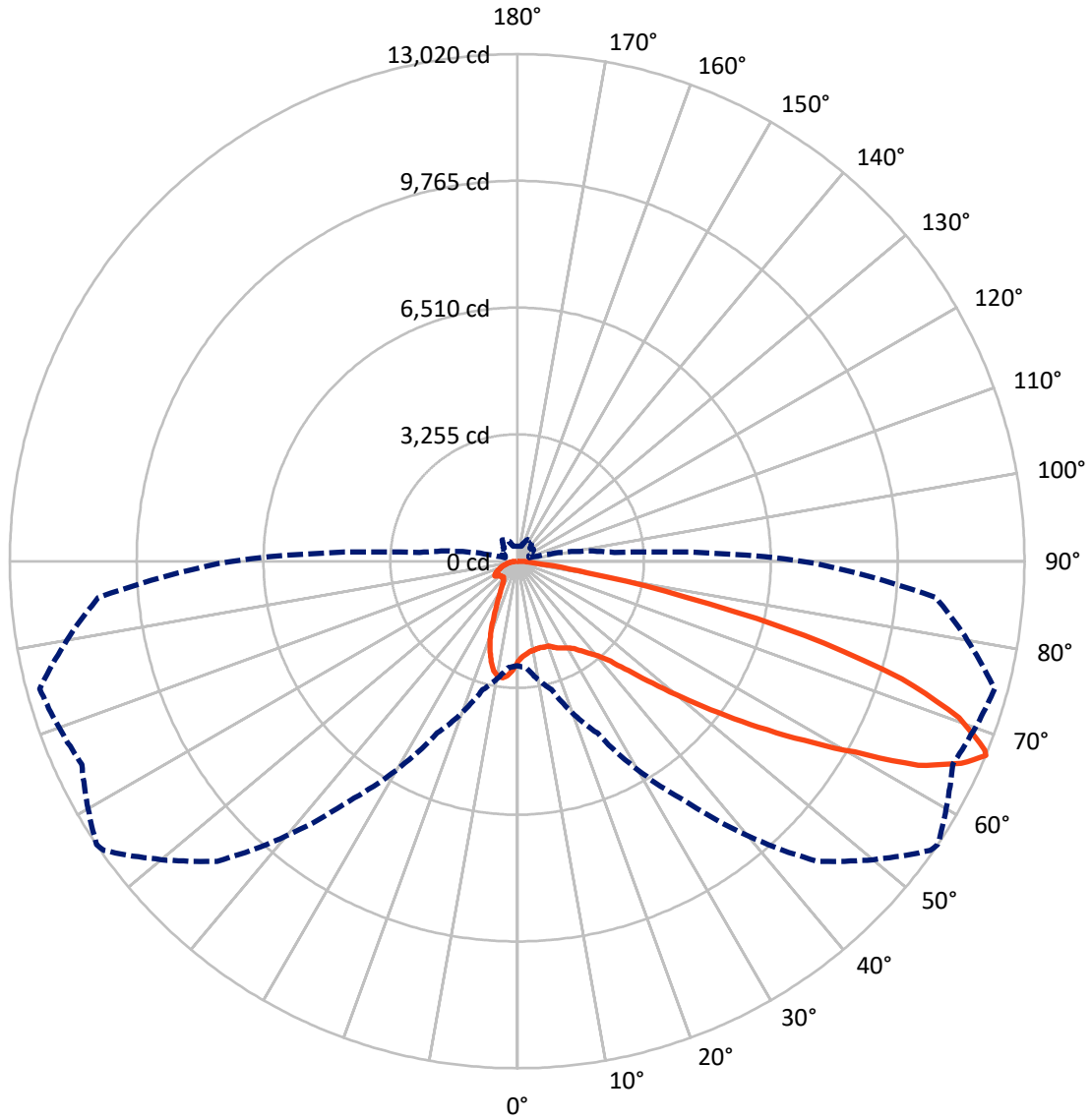
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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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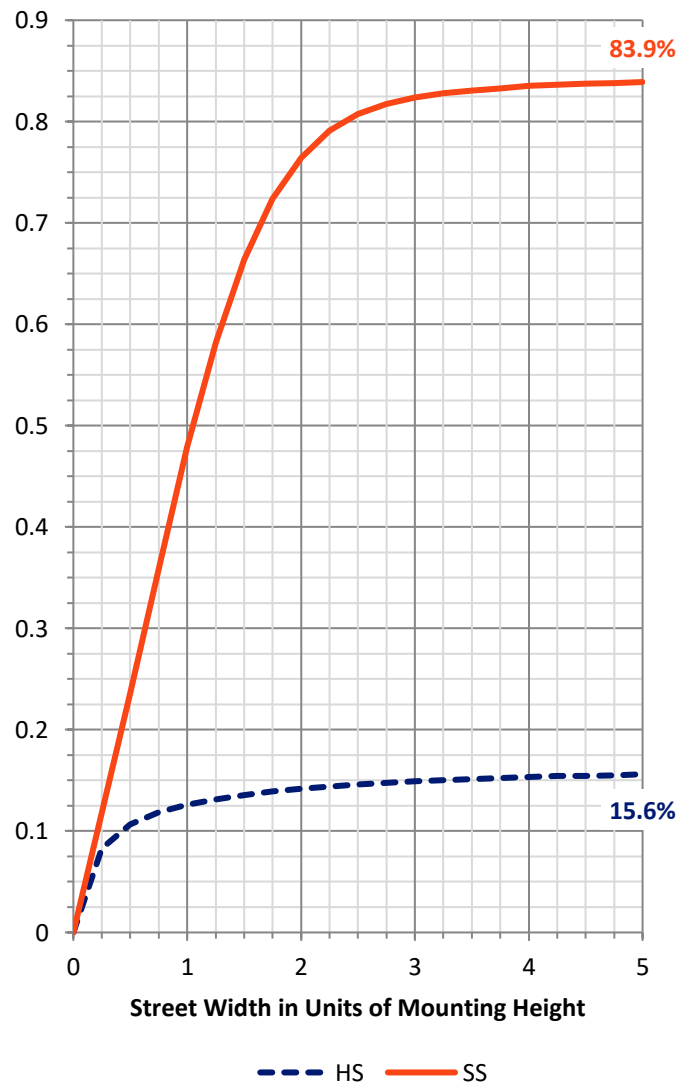
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2617.4	0.0	2617.4
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	13915.9	0.0	13915.9
	% Fixture	84.2	0.0	84.2
Total	Lumens	16533.2	0.0	16533.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.8	1.5
10°-20°	676.1	4.1
20°-30°	1060.3	6.4
30°-40°	1513.7	9.2
40°-50°	2284.5	13.8
50°-60°	3636.6	22.0
60°-70°	4649.1	28.1
70°-80°	2266.8	13.7
80°-90°	198.3	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°	16533.2	100.0
0°-180°	16533.2	100.0

Coefficient of Utilization

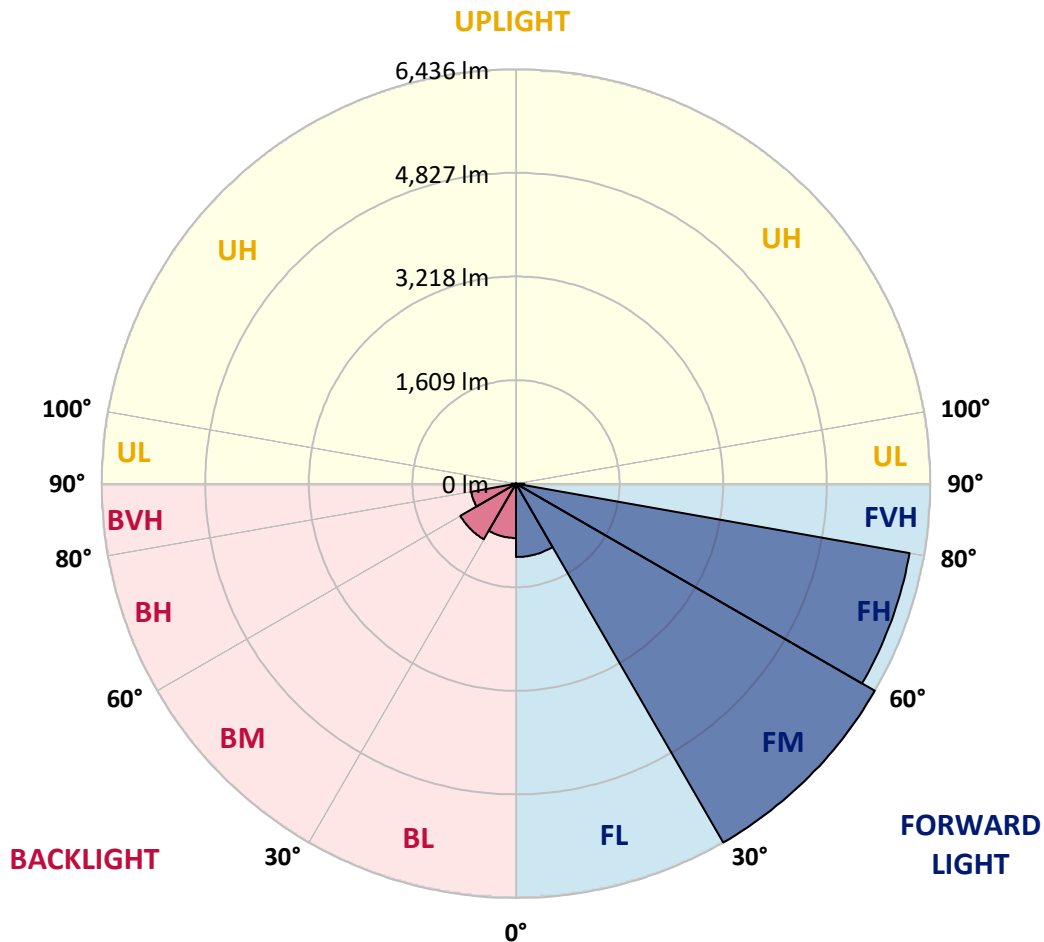


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1139.3	6.9			
FM (30°-60°)	6436.2	38.9			
FH (60°-80°)	6208.6	37.6			G3/7500
FVH (80°-90°)	131.7	0.8			G2/225
BL (0°-30°)	845.0	5.1	B2/1000		
BM (30°-60°)	998.6	6.0	B1/1000		
BH (60°-80°)	707.3	4.3	B2/1000		G2/1000
BVH (80°-90°)	66.6	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°	2572.5	2572.5	2572.5	2572.5	2572.5	2572.5	2572.5	2572.5	2572.5	2572.5
2.5°	2363.2	2353.5	2365.1	2353.5	2405.8	2436.8	2446.5	2460.1	2508.6	2555.1
5°	2264.3	2221.6	2268.2	2283.7	2287.6	2339.9	2394.2	2403.9	2429.1	2504.7
7.5°	2099.5	2148.0	2130.5	2177.1	2225.5	2277.9	2367.0	2341.8	2434.9	2506.6
10°	2064.6	2068.5	2087.9	2105.3	2148.0	2215.8	2339.9	2324.4	2419.4	2572.5
12.5°	2099.5	2099.5	2093.7	2080.1	2128.6	2194.5	2293.4	2301.1	2450.4	2591.9
15°	2221.6	2244.9	2182.9	2192.6	2173.2	2194.5	2281.7	2299.2	2462.0	2607.4
17.5°	2520.2	2512.4	2438.8	2336.0	2250.7	2237.1	2297.2	2316.6	2450.4	2652.0
20°	2811.0	2795.5	2667.5	2560.9	2392.2	2312.8	2322.4	2324.4	2469.8	2681.1
22.5°	3134.7	3175.4	3035.9	2818.7	2609.4	2411.6	2372.9	2403.9	2514.4	2696.6
25°	3642.6	3555.4	3435.2	3150.2	2812.9	2564.8	2456.2	2471.7	2557.0	2735.4
27.5°	4009.0	3974.1	3786.1	3555.4	3097.9	2685.0	2500.8	2529.9	2634.6	2733.4
30°	4361.9	4361.9	4247.5	3902.4	3398.4	2886.6	2595.8	2582.2	2597.7	2729.6
32.5°	4774.8	4718.6	4553.8	4325.0	3776.4	3070.7	2671.4	2675.3	2675.3	2801.3
35°	4991.9	5083.0	4972.5	4600.3	4065.3	3377.0	2853.6	2824.5	2803.2	2880.8
37.5°	5309.8	5364.1	5247.8	5028.7	4423.9	3625.2	3014.5	2991.3	2867.2	2942.8
40°	5501.8	5492.1	5488.2	5387.4	4898.9	3917.9	3251.0	3190.9	3024.2	3161.9
42.5°	5610.3	5590.9	5829.4	5767.3	5346.7	4348.3	3547.6	3514.7	3330.5	3551.5
45°	5732.5	5875.9	6071.7	6246.2	5868.2	4953.1	4049.7	4003.2	3838.4	4119.5
47.5°	5839.1	6015.5	6265.6	6451.7	6339.2	5610.3	4670.1	4681.7	4573.2	4862.0
50°	6017.4	6034.9	6374.1	6750.2	6837.5	6217.1	5503.7	5484.3	5435.8	5841.0
52.5°	5963.1	6015.5	6443.9	6924.7	7068.2	6858.8	6399.3	6457.5	6393.5	6903.4
55°	5079.1	5236.2	6401.3	7108.9	7614.8	7583.8	7550.9	7512.1	7508.2	8097.5
57.5°	4677.9	4805.8	5639.4	7312.4	8200.3	8429.1	8642.3	8684.9	8683.0	9394.5
60°	4414.2	4546.0	5331.2	7201.9	8698.5	9536.0	9945.0	9950.9	9939.2	10780.6
62.5°	3898.5	4026.5	4798.0	6597.1	8836.2	10557.6	11468.8	11544.4	11011.3	11974.8
65°	3278.2	3382.9	4063.3	5672.4	8469.8	11207.1	12614.5	12525.3	11914.7	12657.1
67°	2681.1	2750.9	3413.9	4869.8	7512.1	10895.0	12946.0	13019.7	12331.5	12686.2
67.5°	2510.5	2574.5	3200.6	4596.4	7147.6	10658.4	12957.6	12946.0	12339.2	12692.0
70°	1742.8	1769.9	2180.9	3161.9	5265.2	9004.8	12011.6	12038.7	11821.6	12003.8
72.5°	1155.4	1196.1	1457.8	1992.9	3103.7	6552.5	10040.0	10330.8	10193.2	9842.3
75°	744.4	767.7	953.8	1186.4	1527.6	3731.8	7417.1	7611.0	7295.0	6087.2
77.5°	416.8	442.0	575.8	721.2	744.4	1552.8	4166.1	4406.4	3733.8	2586.1
80°	259.8	292.7	434.2	428.4	354.8	569.9	1717.6	1839.7	1492.7	889.8
82.5°	195.8	221.0	335.4	300.5	199.7	254.0	643.6	690.1	546.7	343.1
85°	133.8	168.7	242.3	186.1	104.7	122.1	255.9	275.3	250.1	166.7
87.5°	48.5	71.7	126.0	93.1	46.5	36.8	83.4	93.1	89.2	75.6
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°
2572.5	0°	2572.5	2572.5	2572.5	2572.5	2572.5	2572.5	2572.5	2572.5	2572.5	2572.5
2595.8	2.5°	2632.6	2659.8	2673.3	2752.8	2785.8	2780.0	2787.7	2799.3	2811.0	2826.5
2628.7	5°	2653.9	2737.3	2781.9	2874.9	2937.0	2909.8	2944.7	2935.0	2921.5	2919.5
2688.8	7.5°	2723.7	2830.4	2964.1	2989.3	3016.5	2948.6	2890.5	2811.0	2791.6	2723.7
2739.2	10°	2847.8	2935.0	3097.9	3107.6	2987.4	2812.9	2683.0	2518.2	2516.3	2417.4
2816.8	12.5°	2966.1	3064.9	3196.8	3140.5	2853.6	2615.2	2403.9	2223.6	2148.0	2097.6
2863.3	15°	3039.7	3202.6	3272.4	3030.0	2619.1	2297.2	2023.9	1830.0	1752.5	1715.7
2921.5	17.5°	3107.6	3334.4	3303.4	2836.2	2330.2	1969.6	1643.9	1475.3	1454.0	1426.8
3014.5	20°	3200.6	3382.9	3192.9	2584.2	2002.6	1547.0	1339.6	1258.2	1277.5	1289.2
3024.2	22.5°	3287.9	3408.1	3053.3	2308.9	1581.9	1225.2	1122.5	1139.9	1169.0	1207.8
3047.5	25°	3326.6	3448.8	2865.3	1928.9	1203.9	1031.3	1008.1	1037.2	1085.6	1087.6
3080.4	27.5°	3351.8	3419.7	2638.4	1558.6	951.9	901.5	936.3	957.7	963.5	986.7
3150.2	30°	3396.4	3359.6	2351.5	1114.7	798.7	800.6	845.2	845.2	845.2	862.7
3220.0	32.5°	3474.0	3318.9	2016.1	814.2	688.2	750.2	738.6	734.7	727.0	705.7
3309.2	35°	3522.4	3208.4	1591.6	602.9	618.4	688.2	684.3	624.2	523.4	473.0
3536.0	37.5°	3623.3	3152.2	1170.9	465.3	577.7	657.2	635.9	490.5	380.0	331.5
3817.1	40°	3840.4	3115.3	810.3	407.1	550.6	641.7	568.0	418.7	290.8	205.5
4251.4	42.5°	4106.0	3117.3	550.6	383.8	552.5	674.6	546.7	358.6	205.5	164.8
4831.0	45°	4462.7	3088.2	378.0	383.8	587.4	728.9	560.3	325.7	199.7	209.4
5558.0	47.5°	4846.5	3113.4	281.1	348.9	593.2	730.9	511.8	319.9	191.9	242.3
6348.9	50°	5294.3	3138.6	232.6	321.8	595.2	707.6	471.1	312.1	199.7	255.9
7256.2	52.5°	5755.7	3218.1	197.7	304.4	618.4	697.9	471.1	323.7	199.7	222.9
8411.6	55°	6443.9	3421.6	285.0	380.0	703.7	761.9	579.6	453.6	279.2	286.9
9518.5	57.5°	7203.9	3631.0	317.9	399.4	723.1	686.3	624.2	500.2	294.7	296.6
10379.3	60°	7704.0	3638.8	316.0	389.7	676.6	593.2	610.7	527.3	300.5	254.0
10912.4	62.5°	7903.7	3402.3	329.6	389.7	630.0	554.4	626.2	568.0	310.2	317.9
11063.6	65°	7676.9	2913.7	317.9	348.9	554.4	496.3	630.0	575.8	339.3	319.9
10792.2	67°	7322.1	2510.5	323.7	331.5	515.7	471.1	663.0	604.8	393.5	383.8
10650.7	67.5°	7221.3	2403.9	321.8	321.8	502.1	463.3	670.8	604.8	401.3	397.4
9400.3	70°	6364.4	1948.3	329.6	317.9	443.9	440.1	713.4	637.8	461.4	465.3
6905.3	72.5°	4844.6	1477.2	327.6	317.9	385.8	420.7	719.2	659.1	502.1	465.3
3867.5	75°	2752.8	884.0	288.9	277.2	304.4	366.4	672.7	628.1	488.5	416.8
1545.1	77.5°	1138.0	455.6	265.6	250.1	252.0	298.5	560.3	585.5	465.3	354.8
515.7	80°	424.6	273.3	213.2	199.7	193.9	219.1	399.4	467.2	397.4	290.8
226.8	82.5°	221.0	170.6	145.4	145.4	131.8	139.6	215.2	310.2	300.5	199.7
91.1	85°	112.4	96.9	83.4	81.4	73.7	65.9	108.6	184.2	172.5	110.5
40.7	87.5°	60.1	54.3	34.9	33.0	27.1	17.4	19.4	36.8	60.1	48.5
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>
2572.5
2842.0
2937.0
2747.0
2413.6
2085.9
1707.9
1440.4
1275.6
1186.4
1106.9
1008.1
882.1
694.0
496.3
329.6
199.7
160.9
213.2
269.5
296.6
228.8
302.4
286.9
261.7
321.8
314.1
378.0
389.7
430.4
412.9
372.2
335.4
265.6
157.0
91.1
34.9
0.0

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