

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: P477886

Luminaire Tested: **IFLD-S-SA3D-827-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477886
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-827-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (48) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

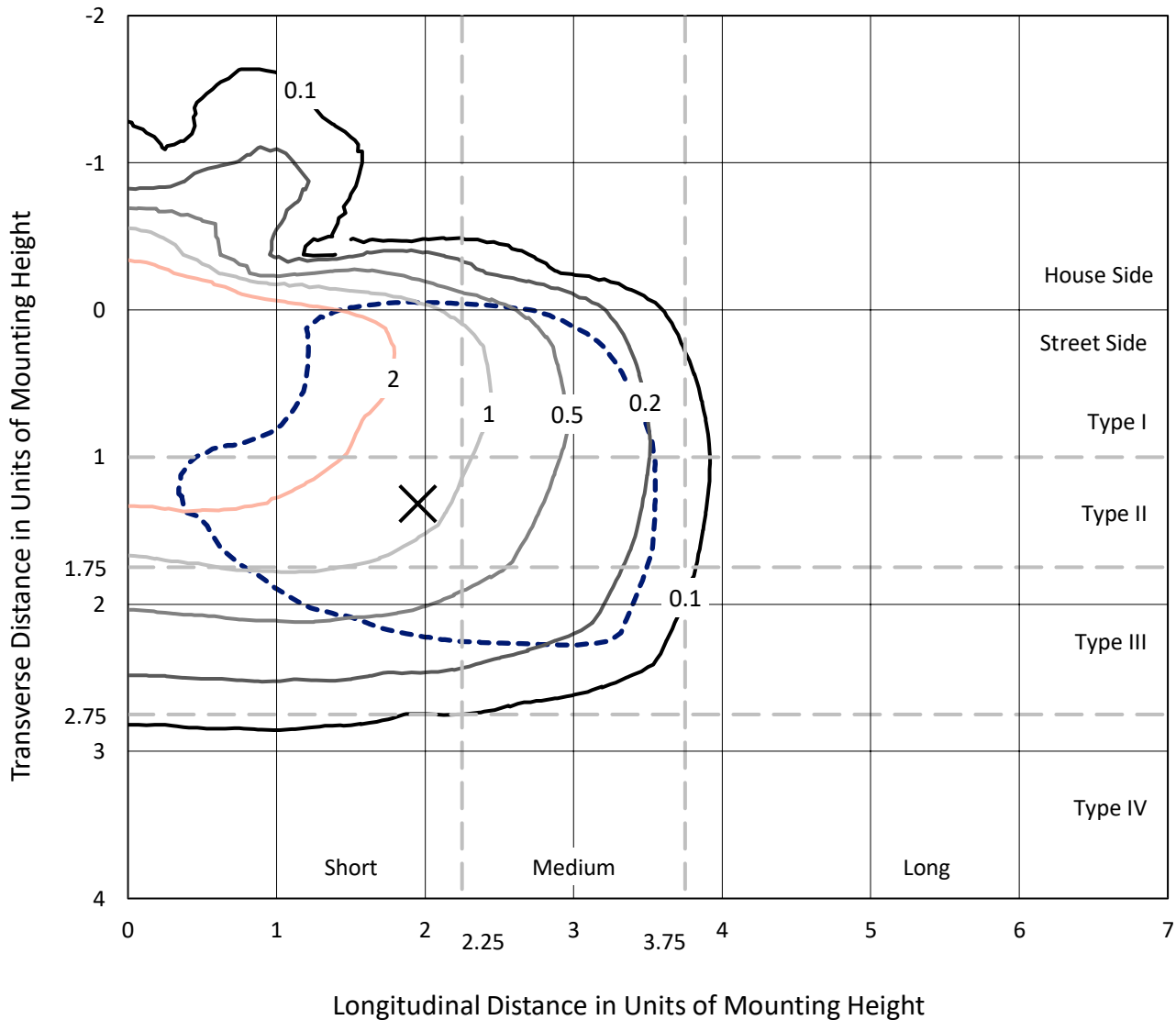
Lumens per Lamp: N/A
Luminaire Lumens: 16829.7 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 184.1
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

REPORT NUMBER: P477886
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Iso-Footcandle Lines of Horizontal Illumination

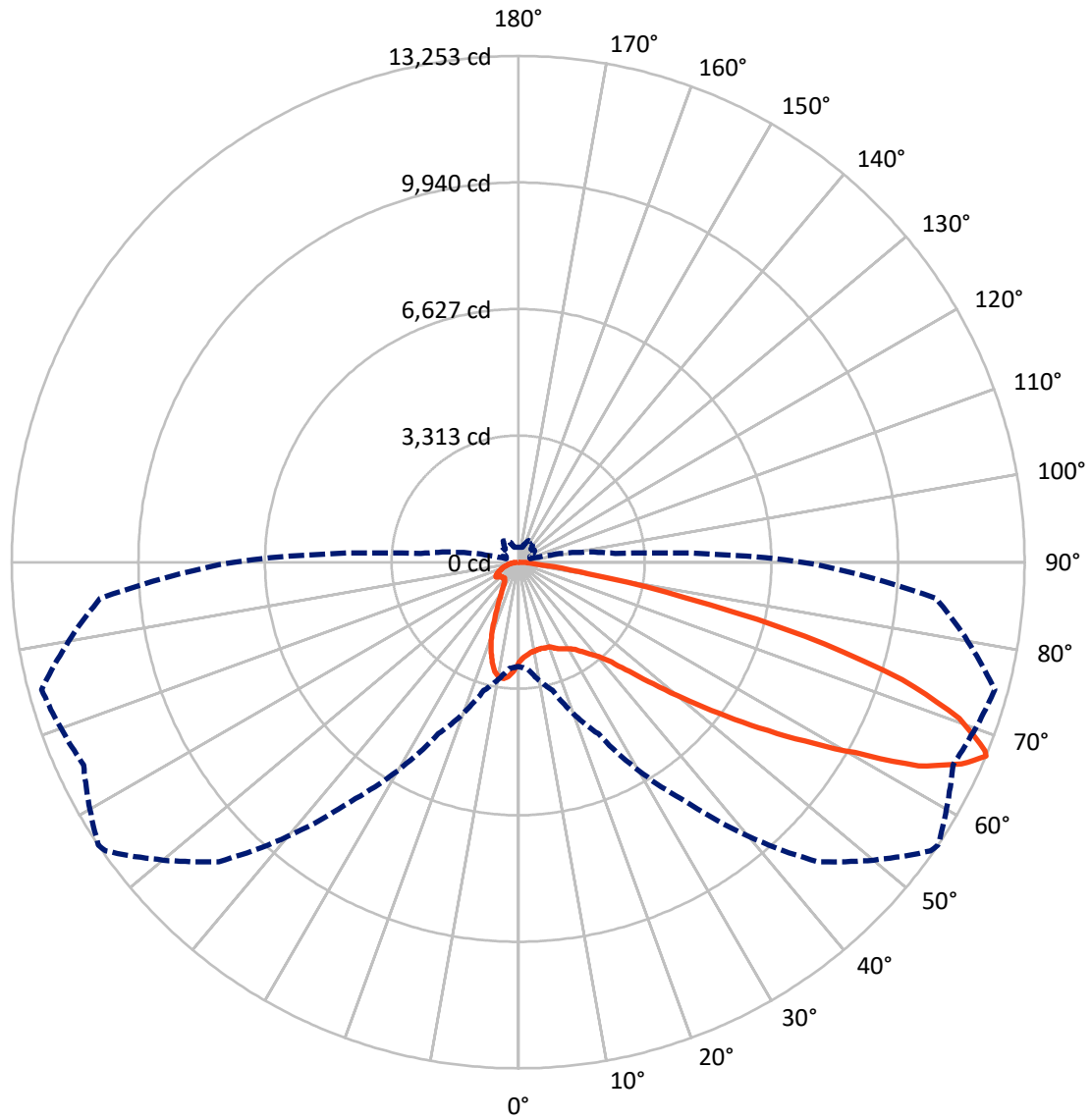
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type III - Short - N/A

REPORT NUMBER: P477886
CATALOG NUMBER: IFLD-S-SA3D-827-U-T3R

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	2664.3	0.0	2664.3
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	14165.4	0.0	14165.4
	% Fixture	84.2	0.0	84.2
Total	Lumens	16829.7	0.0	16829.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.3	1.5
10°-20°	688.2	4.1
20°-30°	1079.4	6.4
30°-40°	1540.8	9.2
40°-50°	2325.5	13.8
50°-60°	3701.8	22.0
60°-70°	4732.5	28.1
70°-80°	2307.4	13.7
80°-90°	201.9	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°	16829.7	100.0
0°-180°	16829.7	100.0

Coefficient of Utilization

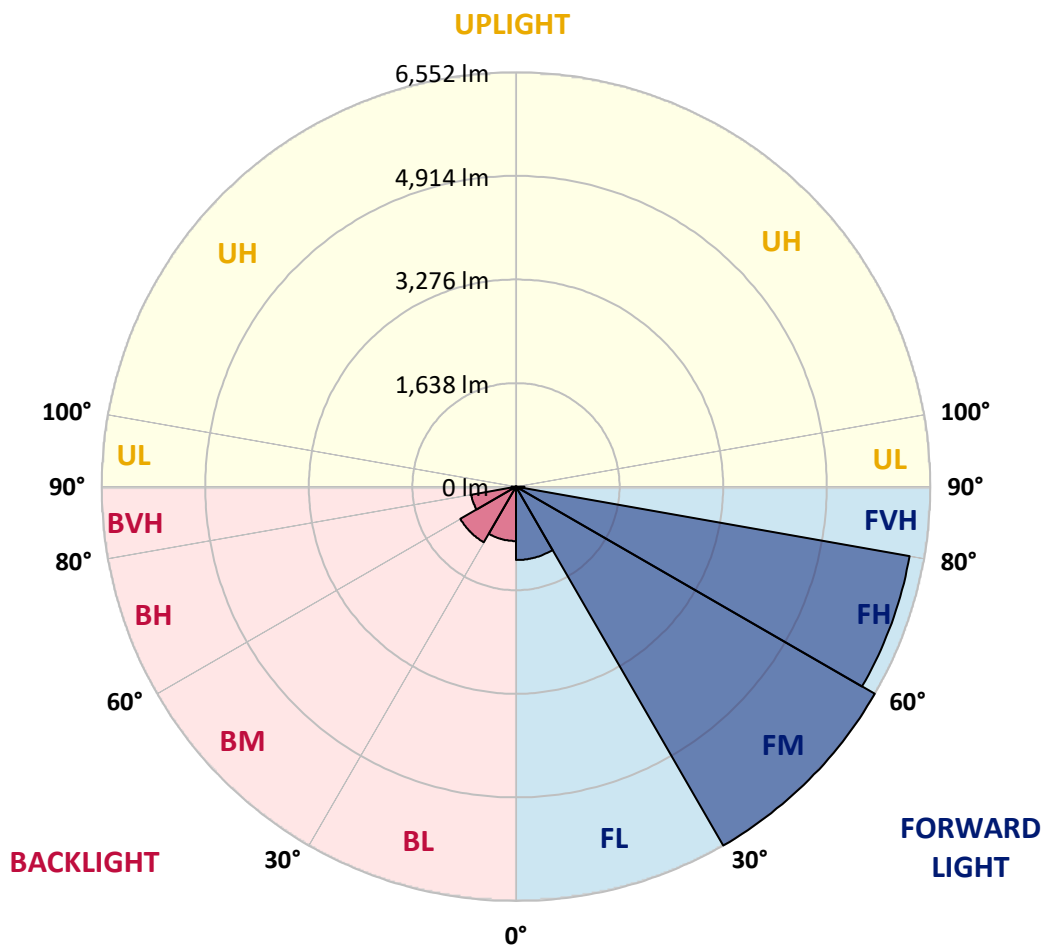


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1159.8	6.9			
FM (30°-60°)	6551.6	38.9			
FH (60°-80°)	6319.9	37.6			G3/7500
FVH (80°-90°)	134.1	0.8			G2/225
BL (0°-30°)	860.1	5.1	B2/1000		
BM (30°-60°)	1016.5	6.0	B2/2500		
BH (60°-80°)	719.9	4.3	B2/1000		G2/1000
BVH (80°-90°)	67.8	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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 CATALOG NUMBER: IFLD-S-SA3D-827-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	2618.7	2618.7	2618.7	2618.7	2618.7	2618.7	2618.7	2618.7	2618.7	2618.7
2.5°	2405.5	2395.7	2407.5	2395.7	2448.9	2480.5	2490.4	2504.2	2553.5	2600.9
5°	2304.9	2261.5	2308.8	2324.6	2328.6	2381.8	2437.1	2447.0	2472.6	2549.6
7.5°	2137.2	2186.5	2168.7	2216.1	2265.4	2318.7	2409.5	2383.8	2478.5	2551.6
10°	2101.6	2105.6	2125.3	2143.1	2186.5	2255.6	2381.8	2366.1	2462.8	2618.7
12.5°	2137.2	2137.2	2131.2	2117.4	2166.8	2233.8	2334.5	2342.4	2494.3	2638.4
15°	2261.5	2285.2	2222.0	2231.9	2212.1	2233.8	2322.6	2340.4	2506.2	2654.2
17.5°	2565.4	2557.5	2482.5	2377.9	2291.1	2277.3	2338.4	2358.2	2494.3	2699.6
20°	2861.4	2845.6	2715.3	2606.8	2435.1	2354.2	2364.1	2366.1	2514.1	2729.2
22.5°	3190.9	3232.4	3090.3	2869.3	2656.1	2454.9	2415.4	2447.0	2559.5	2744.9
25°	3707.9	3619.1	3496.8	3206.7	2863.3	2610.8	2500.3	2516.0	2602.9	2784.4
27.5°	4080.9	4045.4	3854.0	3619.1	3153.4	2733.1	2545.6	2575.2	2681.8	2782.4
30°	4440.1	4440.1	4323.6	3972.4	3459.3	2938.3	2642.3	2628.5	2644.3	2778.5
32.5°	4860.4	4803.2	4635.4	4402.6	3844.1	3125.8	2719.3	2723.2	2723.2	2851.5
35°	5081.4	5174.2	5061.7	4682.8	4138.1	3437.6	2904.8	2875.2	2853.5	2932.4
37.5°	5405.0	5460.3	5341.9	5118.9	4503.2	3690.2	3068.6	3044.9	2918.6	2995.6
40°	5600.4	5590.5	5586.6	5484.0	4986.7	3988.2	3309.3	3248.2	3078.4	3218.6
42.5°	5710.9	5691.2	5933.9	5870.8	5442.5	4426.3	3611.3	3577.7	3390.2	3615.2
45°	5835.2	5981.3	6180.6	6358.2	5973.4	5041.9	4122.4	4075.0	3907.3	4193.4
47.5°	5943.8	6123.3	6377.9	6567.4	6452.9	5710.9	4753.8	4765.7	4655.2	4949.2
50°	6125.3	6143.1	6488.4	6871.3	6960.1	6328.6	5602.4	5582.6	5533.3	5945.7
52.5°	6070.1	6123.3	6559.5	7048.9	7194.9	6981.8	6514.1	6573.3	6508.2	7027.1
55°	5170.2	5330.1	6516.0	7236.3	7751.4	7719.8	7686.2	7646.8	7642.8	8242.7
57.5°	4761.7	4892.0	5740.5	7443.5	8347.3	8580.2	8797.3	8840.7	8838.7	9562.9
60°	4493.3	4627.5	5426.7	7331.0	8854.5	9707.0	10123.4	10129.3	10117.4	10973.9
62.5°	3968.4	4098.7	4884.1	6715.4	8994.6	10746.9	11674.4	11751.4	11208.7	12189.5
65°	3337.0	3443.5	4136.2	5774.1	8621.6	11408.0	12840.7	12749.9	12128.3	12884.1
67°	2729.2	2800.2	3475.1	4957.1	7646.8	11090.3	13178.1	13253.1	12552.6	12913.7
67.5°	2555.5	2620.6	3258.0	4678.8	7275.8	10849.6	13190.0	13178.1	12560.5	12919.6
70°	1774.1	1801.7	2220.0	3218.6	5359.7	9166.3	12227.0	12254.6	12033.6	12219.1
72.5°	1176.1	1217.6	1484.0	2028.6	3159.4	6670.0	10220.0	10516.1	10375.9	10018.8
75°	757.8	781.5	970.9	1207.7	1555.0	3798.7	7550.1	7747.4	7425.8	6196.4
77.5°	424.3	449.9	586.1	734.1	757.8	1580.7	4240.8	4485.5	3800.7	2632.5
80°	264.4	298.0	442.0	436.1	361.1	580.2	1748.4	1872.7	1519.5	905.8
82.5°	199.3	225.0	341.4	305.9	203.3	258.5	655.2	702.5	556.5	349.3
85°	136.2	171.7	246.7	189.4	106.6	124.3	260.5	280.2	254.6	169.7
87.5°	49.3	73.0	128.3	94.7	47.4	37.5	84.9	94.7	90.8	77.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P477886
 CATALOG NUMBER: IFLD-S-SA3D-827-U-T3R

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2618.7	0°	2618.7	2618.7	2618.7	2618.7	2618.7	2618.7	2618.7	2618.7	2618.7	2618.7
2642.3	2.5°	2679.8	2707.5	2721.3	2802.2	2835.7	2829.8	2837.7	2849.5	2861.4	2877.2
2675.9	5°	2701.5	2786.4	2831.8	2926.5	2989.6	2962.0	2997.5	2987.7	2973.9	2971.9
2737.1	7.5°	2772.6	2881.1	3017.3	3042.9	3070.6	3001.5	2942.3	2861.4	2841.6	2772.6
2788.4	10°	2898.9	2987.7	3153.4	3163.3	3041.0	2863.3	2731.1	2563.4	2561.4	2460.8
2867.3	12.5°	3019.2	3119.9	3254.1	3196.8	2904.8	2662.1	2447.0	2263.4	2186.5	2135.2
2914.7	15°	3094.2	3260.0	3331.0	3084.4	2666.0	2338.4	2060.2	1862.9	1783.9	1746.4
2973.9	17.5°	3163.3	3394.2	3362.6	2887.0	2372.0	2004.9	1673.4	1501.7	1480.0	1452.4
3068.6	20°	3258.0	3443.5	3250.1	2630.5	2038.5	1574.7	1363.6	1280.7	1300.4	1312.3
3078.4	22.5°	3346.8	3469.2	3108.0	2350.3	1610.3	1247.2	1142.6	1160.3	1189.9	1229.4
3102.1	25°	3386.3	3510.6	2916.6	1963.5	1225.5	1049.8	1026.1	1055.7	1105.1	1107.1
3135.7	27.5°	3411.9	3481.0	2685.7	1586.6	968.9	917.6	953.1	974.8	980.8	1004.4
3206.7	30°	3457.3	3419.8	2393.7	1134.7	813.0	815.0	860.4	860.4	860.4	878.1
3277.8	32.5°	3536.3	3378.4	2052.3	828.8	700.5	763.7	751.9	747.9	740.0	718.3
3368.5	35°	3585.6	3265.9	1620.1	613.7	629.5	700.5	696.6	635.4	532.8	481.5
3599.4	37.5°	3688.2	3208.7	1191.9	473.6	588.1	669.0	647.3	499.3	386.8	337.4
3885.6	40°	3909.2	3171.2	824.9	414.4	560.4	653.2	578.2	426.2	296.0	209.2
4327.6	42.5°	4179.6	3173.2	560.4	390.7	562.4	686.7	556.5	365.1	209.2	167.7
4917.6	45°	4542.7	3143.6	384.8	390.7	597.9	742.0	570.3	331.5	203.3	213.1
5657.6	47.5°	4933.4	3169.2	286.1	355.2	603.8	744.0	521.0	325.6	195.4	246.7
6462.8	50°	5389.3	3194.9	236.8	327.6	605.8	720.3	479.5	317.7	203.3	260.5
7386.3	52.5°	5858.9	3275.8	201.3	309.8	629.5	710.4	479.5	329.6	203.3	226.9
8562.4	55°	6559.5	3483.0	290.1	386.8	716.3	775.5	590.0	461.8	284.2	292.1
9689.2	57.5°	7333.0	3696.1	323.6	406.5	736.1	698.6	635.4	509.1	300.0	301.9
10565.4	60°	7842.1	3704.0	321.7	396.6	688.7	603.8	621.6	536.8	305.9	258.5
11108.1	62.5°	8045.4	3463.3	335.5	396.6	641.3	564.4	637.4	578.2	315.7	323.6
11262.0	65°	7814.5	2966.0	323.6	355.2	564.4	505.2	641.3	586.1	345.3	325.6
10985.7	67°	7453.4	2555.5	329.6	337.4	524.9	479.5	674.9	615.7	400.6	390.7
10841.7	67.5°	7350.8	2447.0	327.6	327.6	511.1	471.6	682.8	615.7	408.5	404.5
9568.8	70°	6478.6	1983.2	335.5	323.6	451.9	448.0	726.2	649.2	469.7	473.6
7029.1	72.5°	4931.4	1503.7	333.5	323.6	392.7	428.2	732.1	670.9	511.1	473.6
3936.9	75°	2802.2	899.9	294.0	282.2	309.8	373.0	684.8	639.4	497.3	424.3
1572.8	77.5°	1158.4	463.7	270.4	254.6	256.5	303.9	570.3	596.0	473.6	361.1
524.9	80°	432.2	278.2	217.1	203.3	197.3	223.0	406.5	475.6	404.5	296.0
230.9	82.5°	225.0	173.7	148.0	148.0	134.2	142.1	219.0	315.7	305.9	203.3
92.7	85°	114.5	98.7	84.9	82.9	75.0	67.1	110.5	187.5	175.6	112.5
41.4	87.5°	61.2	55.3	35.5	33.5	27.6	17.8	19.7	37.5	61.2	49.3
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>
2618.7
2893.0
2989.6
2796.3
2456.8
2123.3
1738.5
1466.2
1298.5
1207.7
1126.8
1026.1
897.9
706.5
505.2
335.5
203.3
163.8
217.1
274.3
301.9
232.9
307.8
292.1
266.4
327.6
319.7
384.8
396.6
438.1
420.3
378.9
341.4
270.4
159.8
92.7
35.5
0.0

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