

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: P477925

Luminaire Tested: **IFLD-S-SA3D-830-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477925
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-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

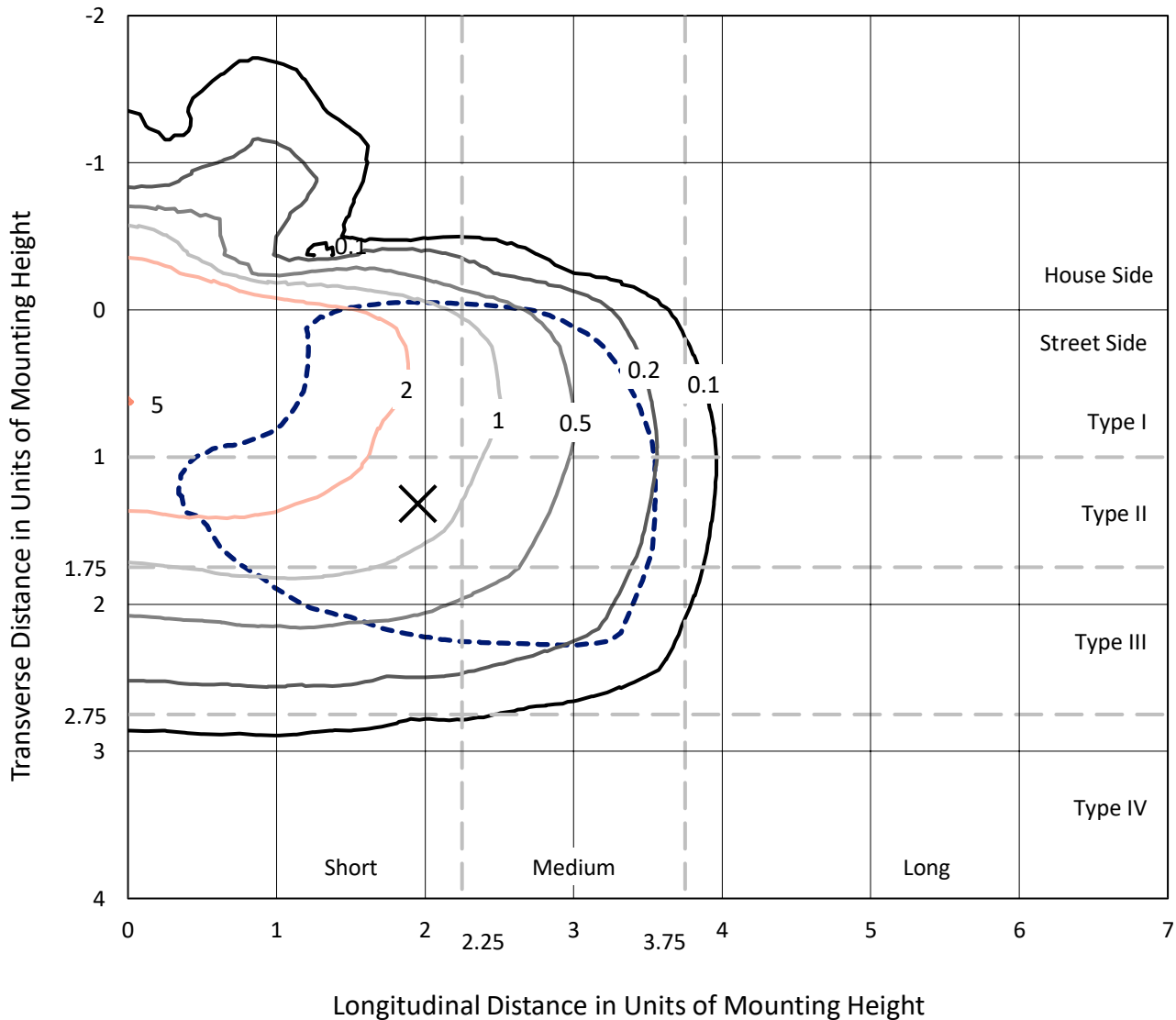
Lumens per Lamp: N/A
Luminaire Lumens: 18191.9 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 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

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Iso-Footcandle Lines of Horizontal Illumination

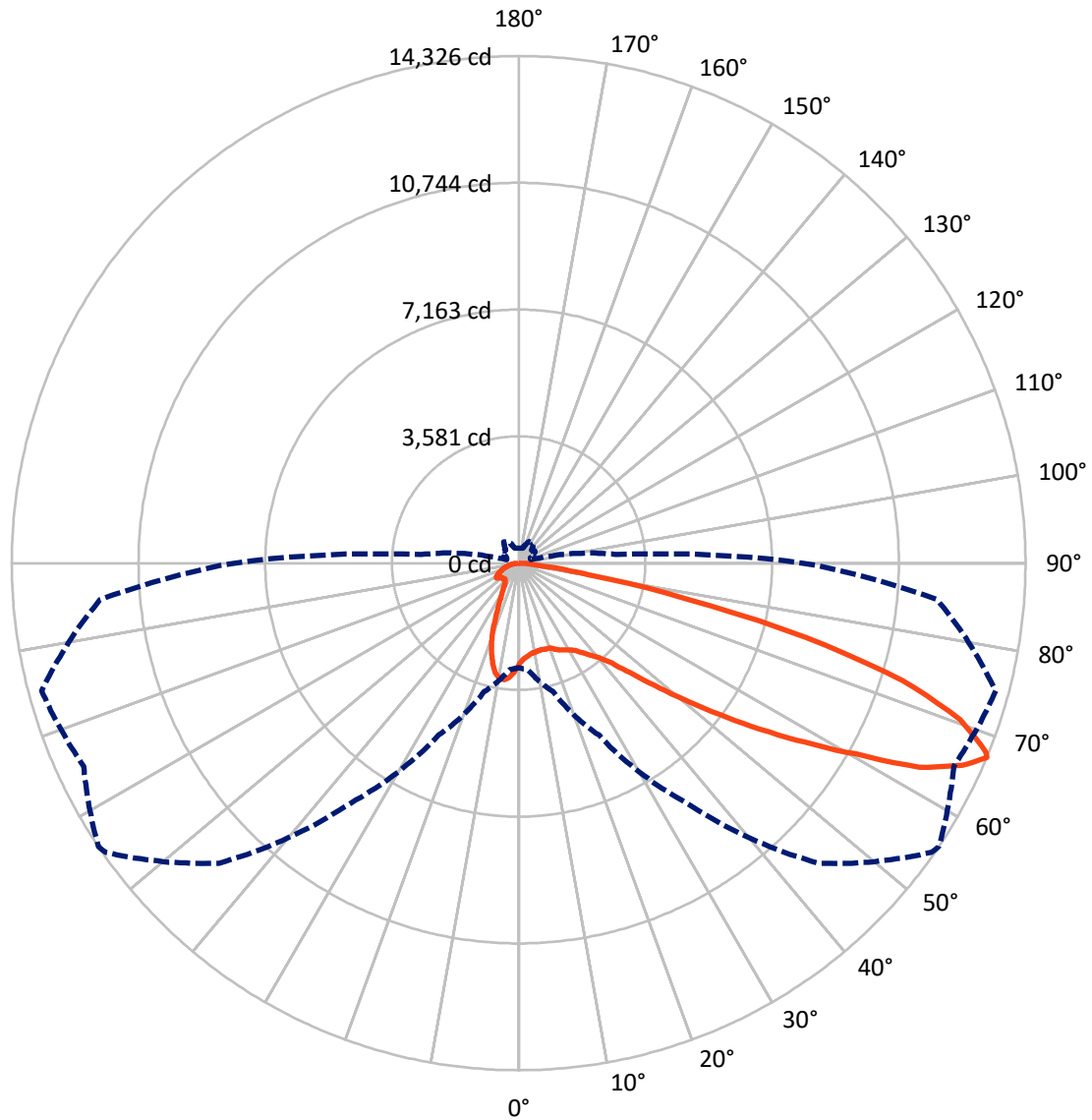
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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	2880.0	0.0	2880.0
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	15311.9	0.0	15311.9
	% Fixture	84.2	0.0	84.2
Total	Lumens	18191.9	0.0	18191.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.7	1.5
10°-20°	743.9	4.1
20°-30°	1166.7	6.4
30°-40°	1665.5	9.2
40°-50°	2513.7	13.8
50°-60°	4001.4	22.0
60°-70°	5115.5	28.1
70°-80°	2494.2	13.7
80°-90°	218.2	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°	18191.9	100.0
0°-180°	18191.9	100.0

Coefficient of Utilization

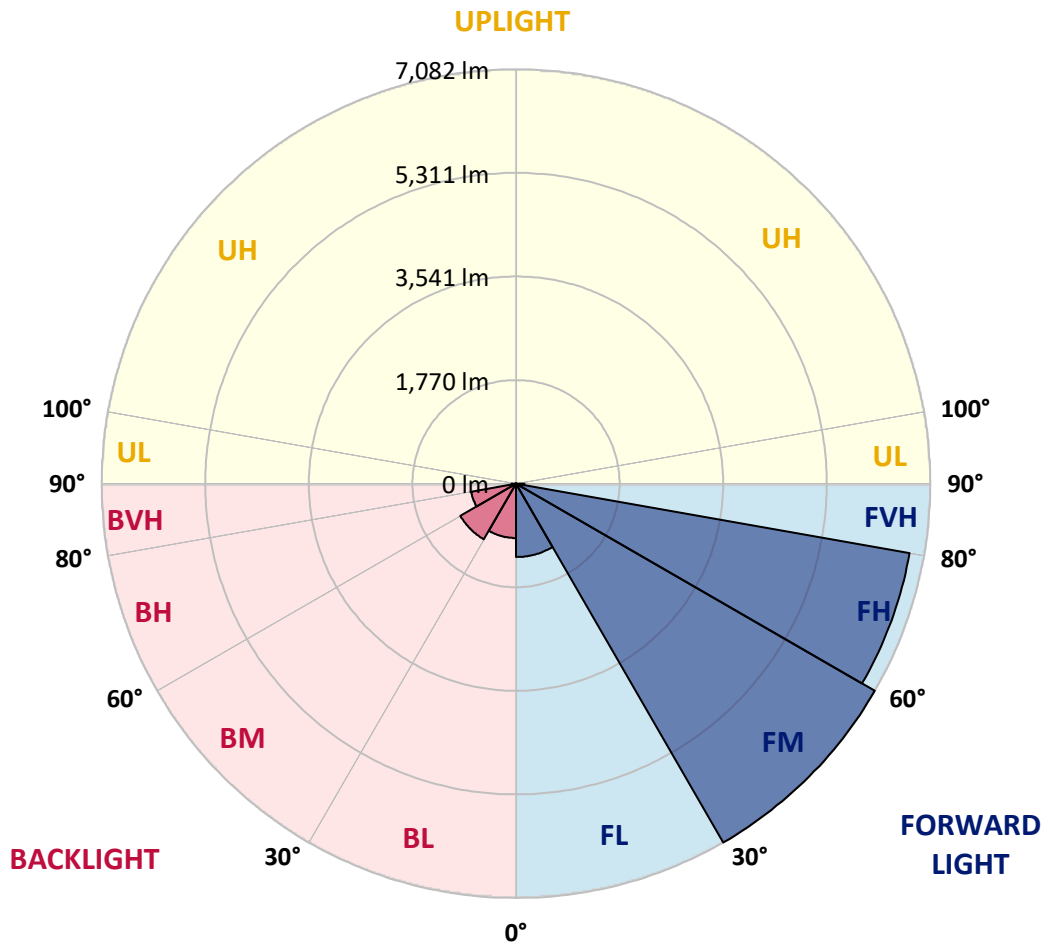


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1253.6	6.9			
FM (30°-60°)	7081.9	38.9			
FH (60°-80°)	6831.5	37.6			G3/7500
FVH (80°-90°)	144.9	0.8			G2/225
BL (0°-30°)	929.7	5.1	B2/1000		
BM (30°-60°)	1098.7	6.0	B2/2500		
BH (60°-80°)	778.2	4.3	B2/1000		G2/1000
BVH (80°-90°)	73.3	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°	2830.6	2830.6	2830.6	2830.6	2830.6	2830.6	2830.6	2830.6	2830.6	2830.6
2.5°	2600.2	2589.6	2602.4	2589.6	2647.2	2681.3	2692.0	2706.9	2760.2	2811.4
5°	2491.4	2444.5	2495.7	2512.8	2517.0	2574.6	2634.4	2645.0	2672.8	2756.0
7.5°	2310.1	2363.5	2344.3	2395.5	2448.8	2506.4	2604.5	2576.8	2679.2	2758.1
10°	2271.7	2276.0	2297.3	2316.5	2363.5	2438.1	2574.6	2557.6	2662.1	2830.6
12.5°	2310.1	2310.1	2303.7	2288.8	2342.1	2414.7	2523.4	2532.0	2696.2	2851.9
15°	2444.5	2470.1	2401.9	2412.5	2391.2	2414.7	2510.6	2529.8	2709.0	2869.0
17.5°	2773.0	2764.5	2683.4	2570.4	2476.5	2461.6	2527.7	2549.0	2696.2	2918.1
20°	3093.0	3075.9	2935.1	2817.8	2632.2	2544.8	2555.4	2557.6	2717.6	2950.1
22.5°	3449.2	3494.0	3340.4	3101.5	2871.1	2653.6	2610.9	2645.0	2766.6	2967.1
25°	4008.1	3912.1	3779.8	3466.3	3095.1	2822.1	2702.6	2719.7	2813.5	3009.8
27.5°	4411.2	4372.8	4165.9	3912.1	3408.7	2954.3	2751.7	2783.7	2898.9	3007.7
30°	4799.5	4799.5	4673.6	4293.9	3739.3	3176.2	2856.2	2841.3	2858.3	3003.4
32.5°	5253.8	5191.9	5010.6	4758.9	4155.3	3378.8	2939.4	2943.7	2943.7	3082.3
35°	5492.7	5593.0	5471.4	5061.8	4473.1	3715.8	3139.9	3107.9	3084.4	3169.8
37.5°	5842.5	5902.3	5774.3	5533.2	4867.7	3988.9	3317.0	3291.4	3154.8	3238.0
40°	6053.7	6043.0	6038.8	5927.9	5390.3	4311.0	3577.2	3511.1	3327.6	3479.1
42.5°	6173.2	6151.8	6414.2	6345.9	5883.1	4784.5	3903.6	3867.3	3664.6	3907.8
45°	6307.5	6465.4	6680.8	6872.8	6456.9	5450.0	4456.0	4404.8	4223.5	4532.8
47.5°	6424.9	6619.0	6894.1	7098.9	6975.2	6173.2	5138.6	5151.4	5032.0	5349.8
50°	6621.1	6640.3	7013.6	7427.4	7523.4	6840.8	6055.8	6034.5	5981.2	6427.0
52.5°	6561.4	6619.0	7090.4	7619.4	7777.2	7546.9	7041.3	7105.3	7034.9	7595.9
55°	5588.7	5761.5	7043.5	7822.0	8378.8	8344.6	8308.4	8265.7	8261.5	8909.9
57.5°	5147.1	5287.9	6205.2	8046.0	9023.0	9274.7	9509.3	9556.2	9554.1	10337.0
60°	4857.0	5002.1	5866.0	7924.4	9571.2	10492.7	10942.8	10949.2	10936.4	11862.1
62.5°	4289.6	4430.4	5279.4	7258.9	9722.6	11616.8	12619.4	12702.6	12116.0	13176.1
65°	3607.1	3722.2	4471.0	6241.4	9319.5	12331.4	13880.0	13781.9	13110.0	13926.9
67°	2950.1	3026.9	3756.4	5358.3	8265.7	11988.0	14244.8	14325.8	13568.6	13958.9
67.5°	2762.4	2832.7	3521.7	5057.6	7864.7	11727.7	14257.6	14244.8	13577.1	13965.3
70°	1917.6	1947.5	2399.7	3479.1	5793.5	9908.2	13216.6	13246.5	13007.6	13208.1
72.5°	1271.3	1316.1	1604.1	2192.8	3415.1	7209.8	11047.3	11367.2	11215.8	10829.7
75°	819.1	844.7	1049.5	1305.5	1680.9	4106.2	8161.2	8374.5	8026.8	6697.9
77.5°	458.6	486.3	633.5	793.5	819.1	1708.6	4584.0	4848.5	4108.3	2845.5
80°	285.8	322.1	477.8	471.4	390.4	627.1	1889.9	2024.3	1642.5	979.1
82.5°	215.4	243.2	369.0	330.6	219.7	279.4	708.2	759.4	601.5	377.6
85°	147.2	185.6	266.6	204.8	115.2	134.4	281.6	302.9	275.2	183.4
87.5°	53.3	78.9	138.7	102.4	51.2	40.5	91.7	102.4	98.1	83.2
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°
2830.6	0°	2830.6	2830.6	2830.6	2830.6	2830.6	2830.6	2830.6	2830.6	2830.6	2830.6
2856.2	2.5°	2896.7	2926.6	2941.5	3029.0	3065.3	3058.9	3067.4	3080.2	3093.0	3110.0
2892.5	5°	2920.2	3011.9	3061.0	3163.4	3231.6	3201.8	3240.2	3229.5	3214.6	3212.4
2958.6	7.5°	2997.0	3114.3	3261.5	3289.2	3319.1	3244.4	3180.4	3093.0	3071.6	2997.0
3014.1	10°	3133.5	3229.5	3408.7	3419.3	3287.1	3095.1	2952.2	2770.9	2768.8	2660.0
3099.4	12.5°	3263.6	3372.4	3517.5	3455.6	3139.9	2877.5	2645.0	2446.7	2363.5	2308.0
3150.6	15°	3344.7	3523.9	3600.7	3334.0	2881.8	2527.7	2226.9	2013.6	1928.3	1887.8
3214.6	17.5°	3419.3	3668.9	3634.8	3120.7	2564.0	2167.2	1808.9	1623.3	1599.8	1570.0
3317.0	20°	3521.7	3722.2	3513.2	2843.4	2203.5	1702.2	1474.0	1384.4	1405.7	1418.5
3327.6	22.5°	3617.7	3750.0	3359.6	2540.5	1740.6	1348.1	1235.1	1254.3	1286.3	1328.9
3353.2	25°	3660.4	3794.8	3152.7	2122.4	1324.6	1134.8	1109.2	1141.2	1194.5	1196.7
3389.5	27.5°	3688.1	3762.8	2903.1	1715.0	1047.3	991.9	1030.3	1053.7	1060.1	1085.7
3466.3	30°	3737.2	3696.6	2587.4	1226.5	878.8	881.0	930.0	930.0	930.0	949.2
3543.1	32.5°	3822.5	3651.8	2218.4	895.9	757.2	825.5	812.7	808.4	799.9	776.4
3641.2	35°	3875.8	3530.3	1751.3	663.4	680.5	757.2	753.0	686.9	575.9	520.5
3890.8	37.5°	3986.7	3468.4	1288.4	511.9	635.7	723.1	699.7	539.7	418.1	364.8
4200.1	40°	4225.7	3427.9	891.6	447.9	605.8	706.1	625.0	460.7	320.0	226.1
4677.9	42.5°	4517.9	3430.0	605.8	422.4	607.9	742.3	601.5	394.6	226.1	181.3
5315.7	45°	4910.4	3398.0	416.0	422.4	646.3	802.0	616.5	358.4	219.7	230.4
6115.6	47.5°	5332.7	3425.7	309.3	384.0	652.7	804.2	563.1	352.0	211.2	266.6
6985.9	50°	5825.5	3453.5	256.0	354.1	654.9	778.6	518.3	343.4	219.7	281.6
7984.2	52.5°	6333.1	3540.9	217.6	334.9	680.5	767.9	518.3	356.2	219.7	245.3
9255.5	55°	7090.4	3764.9	313.6	418.1	774.3	838.3	637.8	499.1	307.2	315.7
10473.5	57.5°	7926.6	3995.3	349.8	439.4	795.6	755.1	686.9	550.3	324.2	326.4
11420.6	60°	8476.9	4003.8	347.7	428.8	744.4	652.7	671.9	580.2	330.6	279.4
12007.2	62.5°	8696.6	3743.6	362.6	428.8	693.3	610.1	689.0	625.0	341.3	349.8
12173.5	65°	8447.0	3206.0	349.8	384.0	610.1	546.1	693.3	633.5	373.3	352.0
11874.9	67°	8056.7	2762.4	356.2	364.8	567.4	518.3	729.5	665.5	433.0	422.4
11719.2	67.5°	7945.8	2645.0	354.1	354.1	552.5	509.8	738.0	665.5	441.5	437.3
10343.4	70°	7002.9	2143.8	362.6	349.8	488.5	484.2	785.0	701.8	507.7	511.9
7598.1	72.5°	5330.6	1625.4	360.5	349.8	424.5	462.9	791.4	725.3	552.5	511.9
4255.5	75°	3029.0	972.7	317.8	305.0	334.9	403.2	740.2	691.1	537.5	458.6
1700.1	77.5°	1252.1	501.3	292.2	275.2	277.3	328.5	616.5	644.2	511.9	390.4
567.4	80°	467.1	300.8	234.6	219.7	213.3	241.0	439.4	514.1	437.3	320.0
249.6	82.5°	243.2	187.7	160.0	160.0	145.1	153.6	236.8	341.3	330.6	219.7
100.3	85°	123.7	106.7	91.7	89.6	81.1	72.5	119.5	202.6	189.8	121.6
44.8	87.5°	66.1	59.7	38.4	36.3	29.9	19.2	21.3	40.5	66.1	53.3
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>
2830.6
3127.1
3231.6
3022.6
2655.7
2295.2
1879.3
1584.9
1403.6
1305.5
1218.0
1109.2
970.6
763.6
546.1
362.6
219.7
177.0
234.6
296.5
326.4
251.7
332.8
315.7
288.0
354.1
345.6
416.0
428.8
473.5
454.3
409.6
369.0
292.2
172.8
100.3
38.4
0.0

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