

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: P477729

Luminaire Tested: **IFLD-S-SA3C-735-U-T3R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477729
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-735-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

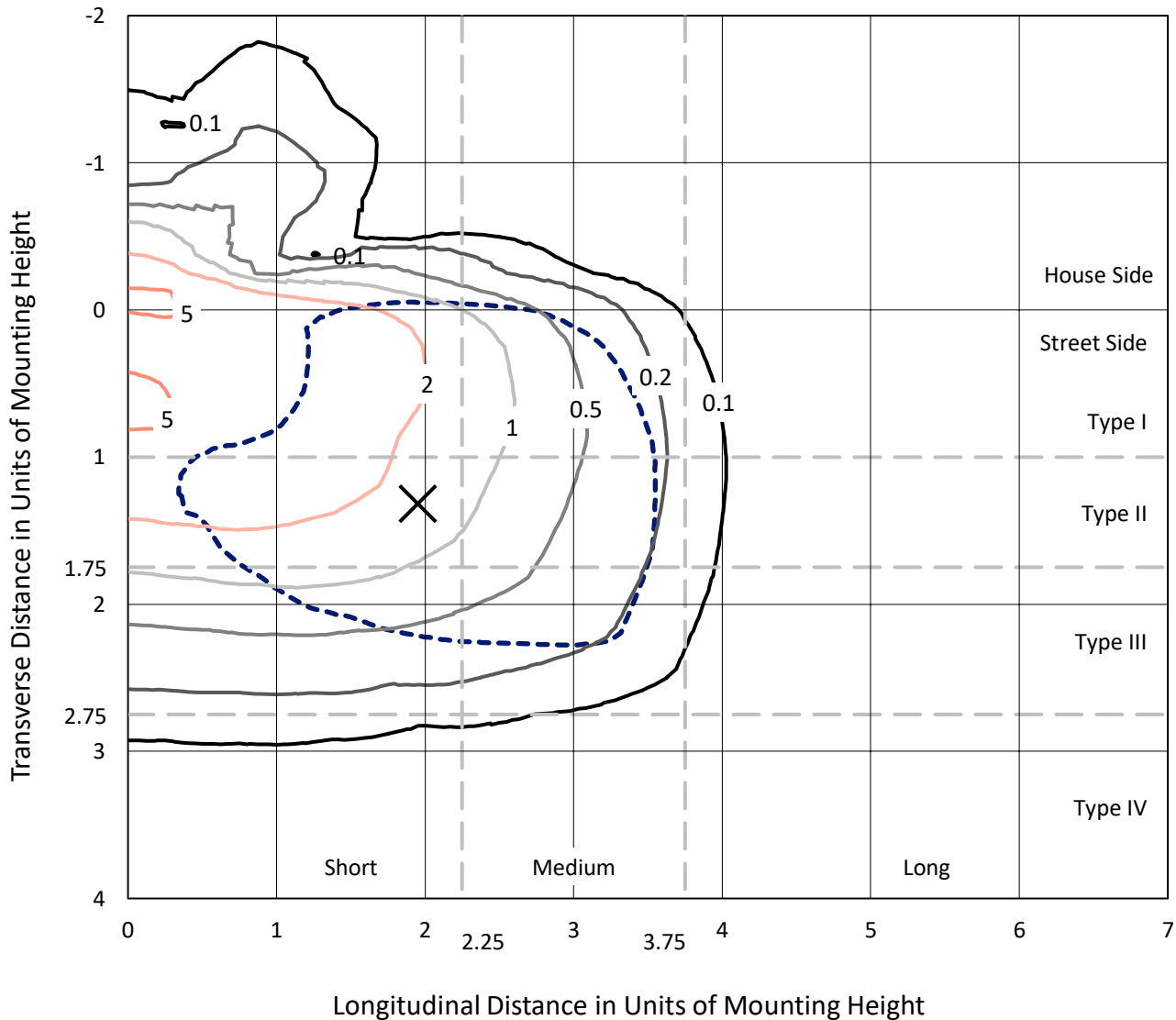
Lumens per Lamp: N/A
Luminaire Lumens: 20521.9 lumens
Efficiency: N/A
Efficacy: 127.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 160.8
Input Voltage (V): 120
Input Current (Ain): 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

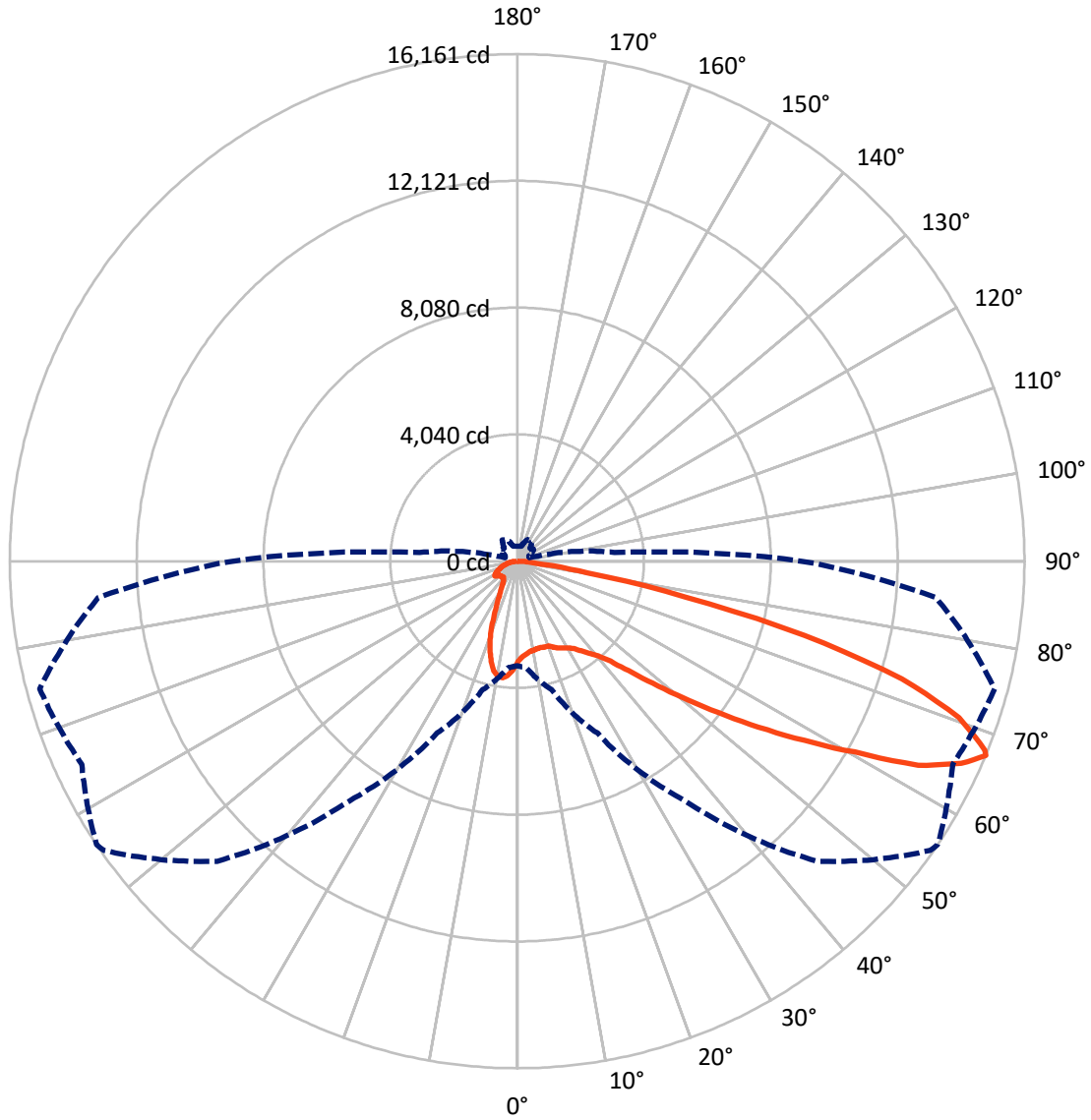
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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	3248.8	0.0	3248.8
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	17273.1	0.0	17273.1
	% Fixture	84.2	0.0	84.2
Total	Lumens	20521.9	0.0	20521.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.6	1.5
10°-20°	839.2	4.1
20°-30°	1316.2	6.4
30°-40°	1878.8	9.2
40°-50°	2835.7	13.8
50°-60°	4513.9	22.0
60°-70°	5770.7	28.1
70°-80°	2813.6	13.7
80°-90°	246.1	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°	20521.9	100.0
0°-180°	20521.9	100.0

Coefficient of Utilization

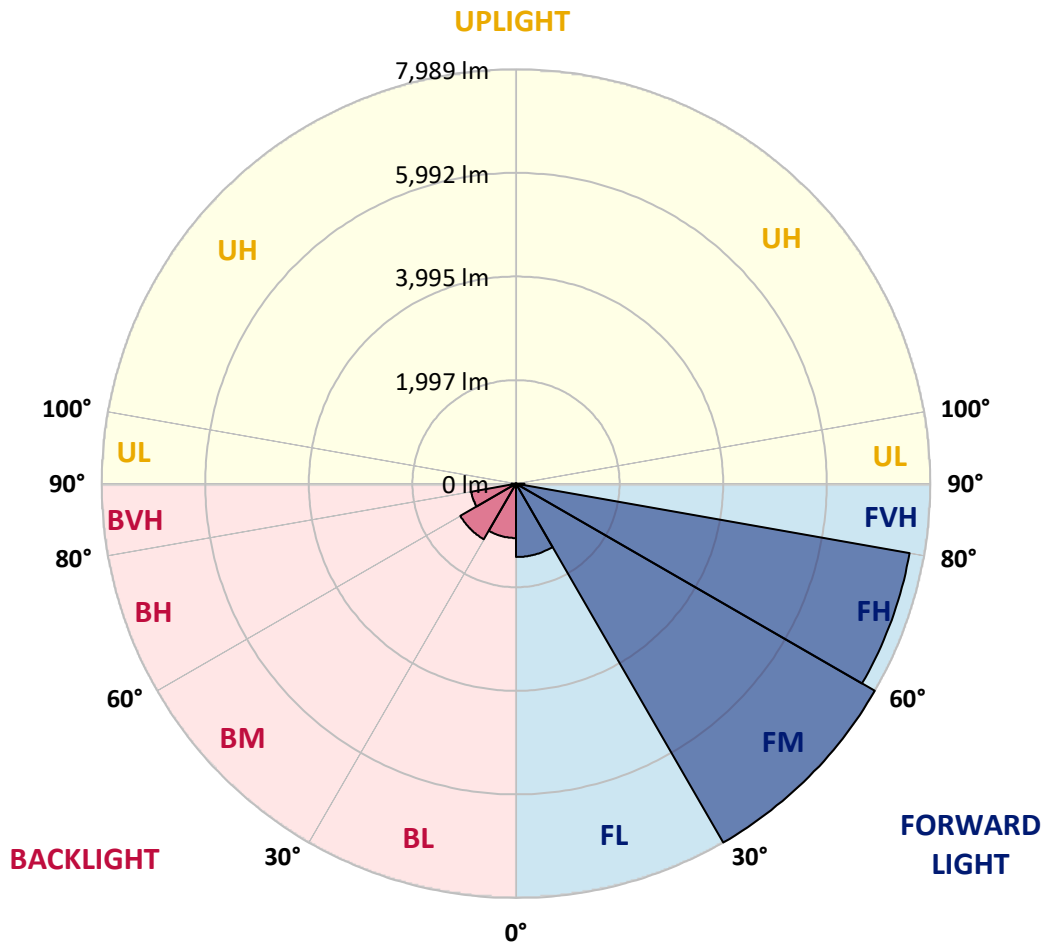


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1414.2	6.9			
FM (30°-60°)	7989.0	38.9			
FH (60°-80°)	7706.4	37.6			G4/12000
FVH (80°-90°)	163.5	0.8			G2/225
BL (0°-30°)	1048.8	5.1	B3/2500		
BM (30°-60°)	1239.5	6.0	B2/2500		
BH (60°-80°)	877.9	4.3	B2/1000		G2/1000
BVH (80°-90°)	82.7	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	3193.2	3193.2	3193.2	3193.2	3193.2	3193.2	3193.2	3193.2	3193.2	3193.2
2.5°	2933.3	2921.2	2935.7	2921.2	2986.2	3024.7	3036.7	3053.6	3113.8	3171.5
5°	2810.6	2757.6	2815.4	2834.6	2839.4	2904.4	2971.8	2983.8	3015.1	3108.9
7.5°	2606.0	2666.2	2644.5	2702.3	2762.4	2827.4	2938.1	2906.8	3022.3	3111.3
10°	2562.7	2567.5	2591.6	2613.2	2666.2	2750.4	2904.4	2885.2	3003.1	3193.2
12.5°	2606.0	2606.0	2598.8	2582.0	2642.1	2723.9	2846.7	2856.3	3041.6	3217.2
15°	2757.6	2786.5	2709.5	2721.5	2697.5	2723.9	2832.2	2853.9	3056.0	3236.5
17.5°	3128.2	3118.6	3027.1	2899.6	2793.7	2776.9	2851.5	2875.5	3041.6	3291.8
20°	3489.1	3469.9	3311.1	3178.7	2969.4	2870.7	2882.7	2885.2	3065.6	3327.9
22.5°	3891.0	3941.5	3768.3	3498.8	3238.9	2993.4	2945.3	2983.8	3121.0	3347.2
25°	4521.4	4413.2	4264.0	3910.2	3491.5	3183.5	3048.8	3068.0	3173.9	3395.3
27.5°	4976.2	4932.9	4699.5	4413.2	3845.3	3332.7	3104.1	3140.2	3270.2	3392.9
30°	5414.2	5414.2	5272.2	4843.9	4218.2	3583.0	3222.0	3205.2	3224.4	3388.1
32.5°	5926.7	5856.9	5652.4	5368.5	4687.5	3811.6	3315.9	3320.7	3320.7	3477.1
35°	6196.2	6309.3	6172.2	5710.1	5046.0	4191.8	3542.1	3506.0	3479.5	3575.8
37.5°	6590.9	6658.2	6513.9	6241.9	5491.2	4499.8	3741.8	3712.9	3558.9	3652.8
40°	6829.1	6817.0	6812.2	6687.1	6080.7	4863.1	4035.4	3960.8	3753.8	3924.7
42.5°	6963.8	6939.8	7235.7	7158.7	6636.6	5397.3	4403.5	4362.6	4134.0	4408.3
45°	7115.4	7293.5	7536.5	7753.1	7283.9	6148.1	5026.8	4969.0	4764.5	5113.4
47.5°	7247.8	7466.7	7777.2	8008.2	7868.6	6963.8	5796.8	5811.2	5676.5	6035.0
50°	7469.2	7490.8	7911.9	8378.7	8487.0	7717.0	6831.5	6807.4	6747.3	7250.2
52.5°	7401.8	7466.7	7998.5	8595.3	8773.4	8513.5	7943.2	8015.4	7936.0	8568.8
55°	6304.5	6499.4	7945.6	8823.9	9451.9	9413.4	9372.5	9324.4	9319.6	10051.1
57.5°	5806.4	5965.2	6999.9	9076.6	10178.6	10462.6	10727.3	10780.2	10777.8	11660.9
60°	5479.1	5642.8	6617.3	8939.4	10797.1	11836.6	12344.3	12351.5	12337.1	13381.4
62.5°	4839.1	4997.9	5955.6	8188.6	10967.9	13104.7	14235.7	14329.5	13667.8	14863.7
65°	4069.1	4199.0	5043.6	7040.8	10513.1	13910.8	15657.8	15547.1	14789.1	15710.7
67°	3327.9	3414.5	4237.5	6044.6	9324.4	13523.4	16069.3	16160.7	15306.5	15746.8
67.5°	3116.2	3195.6	3972.8	5705.3	8872.0	13229.8	16083.7	16069.3	15316.1	15754.0
70°	2163.3	2197.0	2707.1	3924.7	6535.5	11177.3	14909.4	14943.1	14673.6	14899.8
72.5°	1434.2	1484.7	1809.5	2473.7	3852.5	8133.3	12462.2	12823.2	12652.3	12216.8
75°	924.0	952.9	1183.9	1472.7	1896.2	4632.1	9206.5	9447.1	9054.9	7555.8
77.5°	517.4	548.6	714.7	895.1	924.0	1927.4	5171.1	5469.5	4634.5	3210.0
80°	322.4	363.4	539.0	531.8	440.4	707.5	2132.0	2283.6	1852.9	1104.5
82.5°	243.0	274.3	416.3	373.0	247.8	315.2	798.9	856.6	678.6	425.9
85°	166.0	209.3	300.8	231.0	129.9	151.6	317.6	341.7	310.4	206.9
87.5°	60.2	89.0	156.4	115.5	57.8	45.7	103.5	115.5	110.7	93.8
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°
3193.2	0°	3193.2	3193.2	3193.2	3193.2	3193.2	3193.2	3193.2	3193.2	3193.2	3193.2
3222.0	2.5°	3267.8	3301.4	3318.3	3416.9	3457.9	3450.6	3460.3	3474.7	3489.1	3508.4
3262.9	5°	3294.2	3397.7	3453.0	3568.5	3645.5	3611.9	3655.2	3643.1	3626.3	3623.9
3337.5	7.5°	3380.9	3513.2	3679.2	3710.5	3744.2	3660.0	3587.8	3489.1	3465.1	3380.9
3400.1	10°	3534.9	3643.1	3845.3	3857.3	3708.1	3491.5	3330.3	3125.8	3123.4	3000.7
3496.4	12.5°	3681.6	3804.4	3968.0	3898.2	3542.1	3246.1	2983.8	2760.0	2666.2	2603.6
3554.1	15°	3773.1	3975.2	4061.8	3761.0	3250.9	2851.5	2512.2	2271.5	2175.3	2129.6
3626.3	17.5°	3857.3	4138.8	4100.3	3520.4	2892.4	2444.8	2040.5	1831.2	1804.7	1771.0
3741.8	20°	3972.8	4199.0	3963.2	3207.6	2485.7	1920.2	1662.8	1561.7	1585.8	1600.2
3753.8	22.5°	4081.1	4230.3	3789.9	2865.9	1963.5	1520.8	1393.2	1414.9	1451.0	1499.1
3782.7	25°	4129.2	4280.8	3556.5	2394.3	1494.3	1280.2	1251.3	1287.4	1347.5	1349.9
3823.6	27.5°	4160.5	4244.7	3275.0	1934.7	1181.5	1118.9	1162.2	1188.7	1195.9	1224.8
3910.2	30°	4215.8	4170.1	2918.8	1383.6	991.4	993.8	1049.1	1049.1	1049.1	1070.8
3996.9	32.5°	4312.1	4119.6	2502.6	1010.6	854.2	931.2	916.8	912.0	902.4	875.9
4107.6	35°	4372.2	3982.4	1975.6	748.4	767.6	854.2	849.4	774.8	649.7	587.1
4389.1	37.5°	4497.4	3912.6	1453.4	577.5	717.1	815.7	789.3	608.8	471.6	411.5
4738.0	40°	4766.9	3866.9	1005.8	505.3	683.4	796.5	705.0	519.8	360.9	255.1
5277.0	42.5°	5096.5	3869.3	683.4	476.4	685.8	837.4	678.6	445.2	255.1	204.5
5996.5	45°	5539.3	3833.2	469.2	476.4	729.1	904.8	695.4	404.3	247.8	259.9
6898.9	47.5°	6015.7	3864.5	348.9	433.1	736.3	907.2	635.3	397.0	238.2	300.8
7880.6	50°	6571.6	3895.8	288.8	399.4	738.7	878.3	584.7	387.4	247.8	317.6
9006.8	52.5°	7144.3	3994.5	245.4	377.8	767.6	866.3	584.7	401.9	247.8	276.7
10440.9	55°	7998.5	4247.1	353.7	471.6	873.5	945.7	719.5	563.1	346.5	356.1
11814.9	57.5°	8941.8	4507.0	394.6	495.7	897.5	851.8	774.8	620.8	365.8	368.2
12883.3	60°	9562.6	4516.6	392.2	483.7	839.8	736.3	758.0	654.5	373.0	315.2
13545.1	62.5°	9810.5	4223.1	409.1	483.7	782.0	688.2	777.2	705.0	385.0	394.6
13732.7	65°	9528.9	3616.7	394.6	433.1	688.2	616.0	782.0	714.7	421.1	397.0
13395.9	67°	9088.6	3116.2	401.9	411.5	640.1	584.7	823.0	750.8	488.5	476.4
13220.2	67.5°	8963.5	2983.8	399.4	399.4	623.2	575.1	832.6	750.8	498.1	493.3
11668.1	70°	7899.9	2418.3	409.1	394.6	551.0	546.2	885.5	791.7	572.7	577.5
8571.2	72.5°	6013.3	1833.6	406.7	394.6	478.9	522.2	892.7	818.1	623.2	577.5
4800.6	75°	3416.9	1097.3	358.5	344.1	377.8	454.8	835.0	779.6	606.4	517.4
1917.8	77.5°	1412.5	565.5	329.7	310.4	312.8	370.6	695.4	726.7	577.5	440.4
640.1	80°	527.0	339.3	264.7	247.8	240.6	271.9	495.7	579.9	493.3	360.9
281.5	82.5°	274.3	211.8	180.5	180.5	163.6	173.3	267.1	385.0	373.0	247.8
113.1	85°	139.6	120.3	103.5	101.1	91.4	81.8	134.8	228.6	214.2	137.2
50.5	87.5°	74.6	67.4	43.3	40.9	33.7	21.7	24.1	45.7	74.6	60.2
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>
3193.2
3527.6
3645.5
3409.7
2995.8
2589.2
2119.9
1787.9
1583.3
1472.7
1374.0
1251.3
1094.9
861.5
616.0
409.1
247.8
199.7
264.7
334.5
368.2
283.9
375.4
356.1
324.9
399.4
389.8
469.2
483.7
534.2
512.5
462.0
416.3
329.7
194.9
113.1
43.3
0.0

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