

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: P477887

Luminaire Tested: **IFLD-S-SA3E-827-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477887
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3E-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

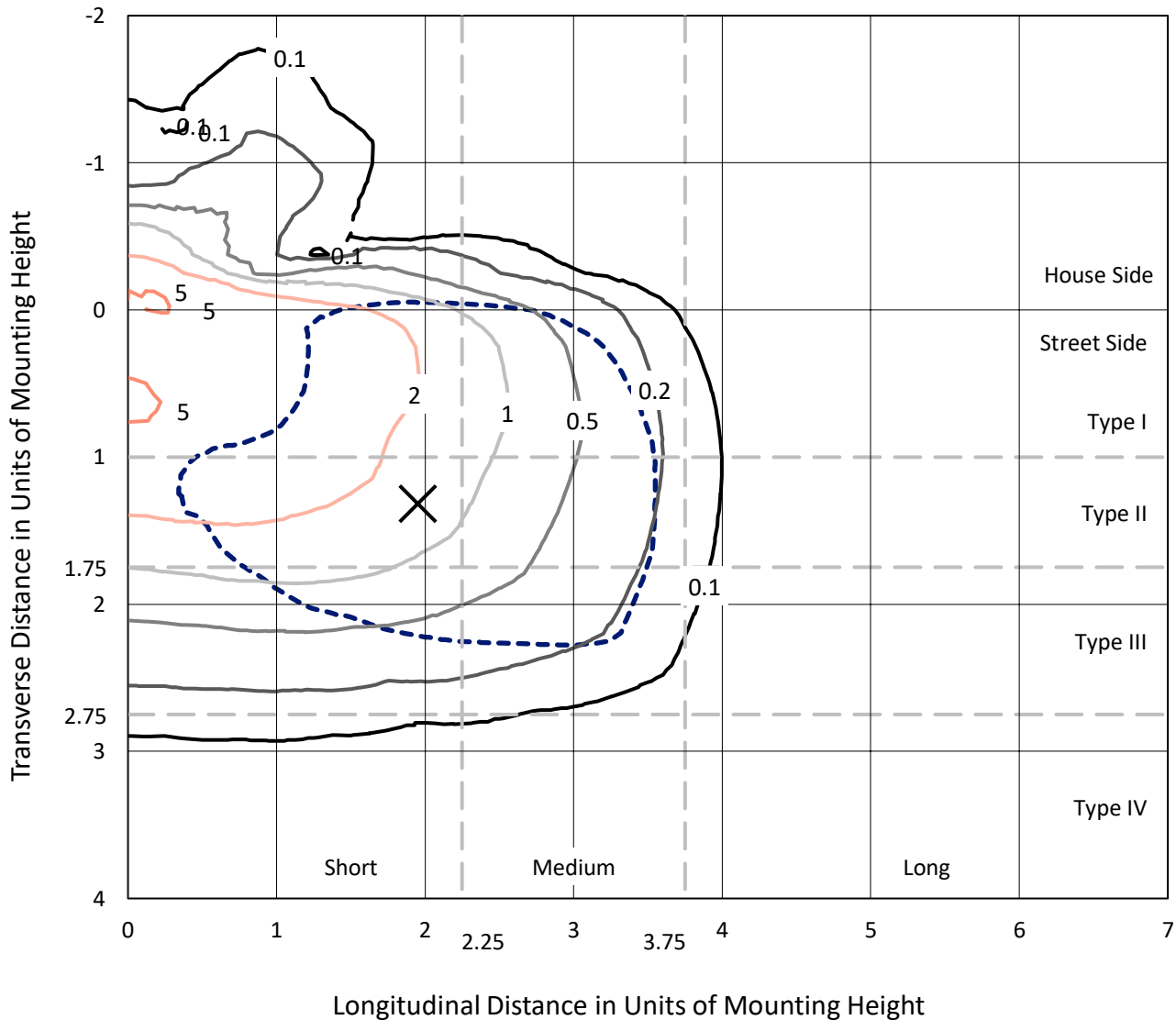
Lumens per Lamp: N/A
Luminaire Lumens: 19477.1 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 232.1
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

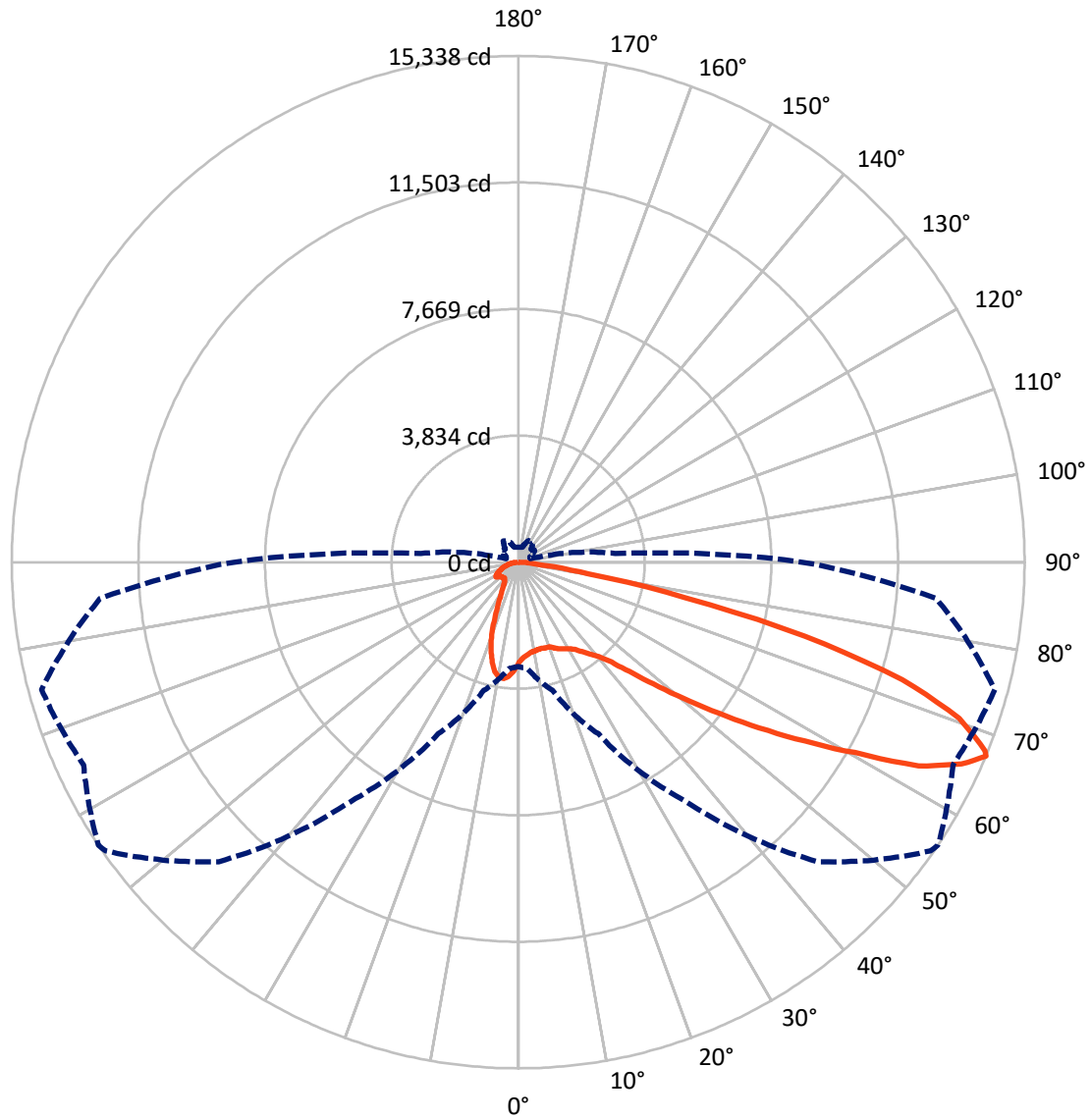
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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	3083.4	0.0	3083.4
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	16393.7	0.0	16393.7
	% Fixture	84.2	0.0	84.2
Total	Lumens	19477.1	0.0	19477.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.0	1.5
10°-20°	796.5	4.1
20°-30°	1249.1	6.4
30°-40°	1783.2	9.2
40°-50°	2691.3	13.8
50°-60°	4284.1	22.0
60°-70°	5476.9	28.1
70°-80°	2670.4	13.7
80°-90°	233.6	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°	19477.1	100.0
0°-180°	19477.1	100.0

Coefficient of Utilization

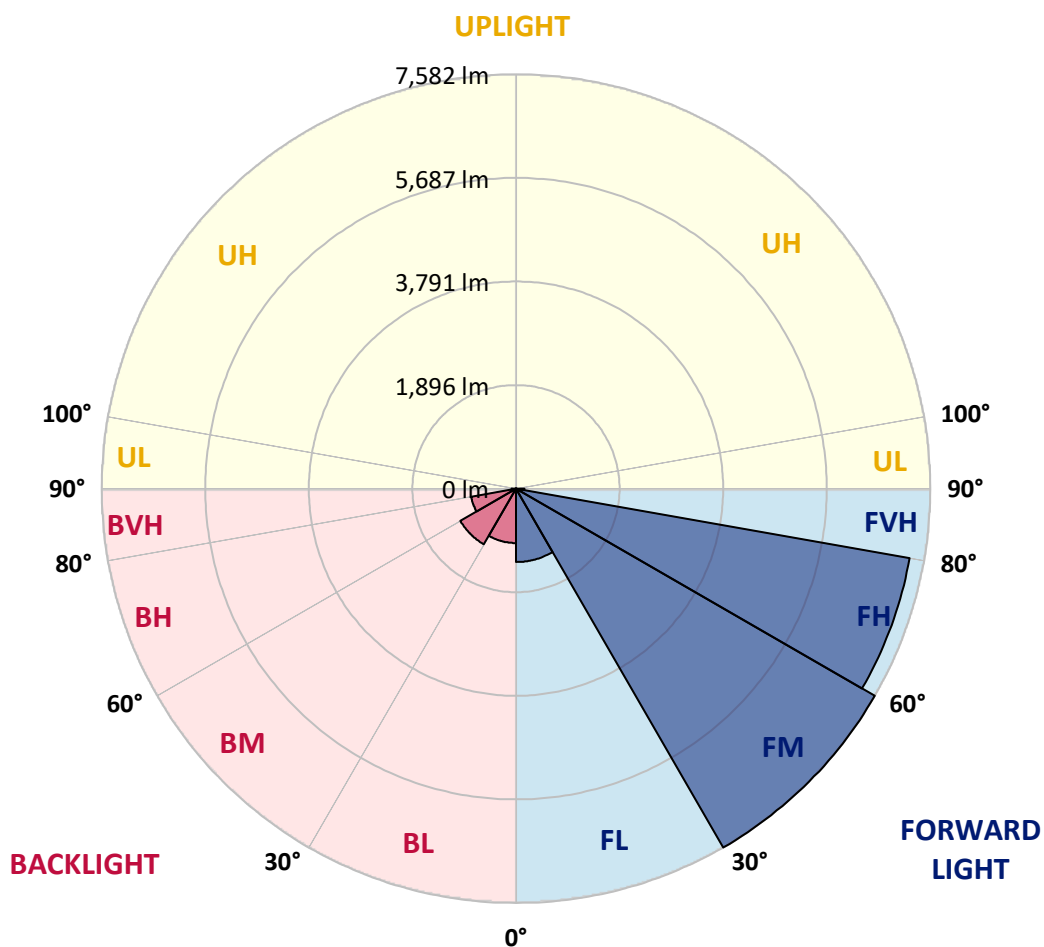


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1342.2	6.9			
FM (30°-60°)	7582.3	38.9			
FH (60°-80°)	7314.1	37.6			G3/7500
FVH (80°-90°)	155.1	0.8			G2/225
BL (0°-30°)	995.4	5.1	B2/1000		
BM (30°-60°)	1176.4	6.0	B2/2500		
BH (60°-80°)	833.2	4.3	B2/1000		G2/1000
BVH (80°-90°)	78.5	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°	3030.6	3030.6	3030.6	3030.6	3030.6	3030.6	3030.6	3030.6	3030.6	3030.6
2.5°	2783.9	2772.5	2786.2	2772.5	2834.2	2870.7	2882.1	2898.1	2955.2	3010.0
5°	2667.5	2617.2	2672.0	2690.3	2694.9	2756.5	2820.5	2831.9	2861.6	2950.7
7.5°	2473.3	2530.4	2509.9	2564.7	2621.8	2683.4	2788.5	2758.8	2868.4	2952.9
10°	2432.2	2436.8	2459.6	2480.2	2530.4	2610.4	2756.5	2738.3	2850.2	3030.6
12.5°	2473.3	2473.3	2466.5	2450.5	2507.6	2585.2	2701.7	2710.9	2886.7	3053.4
15°	2617.2	2644.6	2571.5	2583.0	2560.1	2585.2	2688.0	2708.6	2900.4	3071.7
17.5°	2968.9	2959.8	2873.0	2752.0	2651.5	2635.5	2706.3	2729.1	2886.7	3124.2
20°	3311.5	3293.2	3142.5	3016.9	2818.2	2724.6	2736.0	2738.3	2909.5	3158.5
22.5°	3692.9	3740.8	3576.4	3320.6	3074.0	2841.0	2795.4	2831.9	2962.1	3176.7
25°	4291.2	4188.5	4046.9	3711.2	3313.8	3021.4	2893.6	2911.8	3012.3	3222.4
27.5°	4722.9	4681.8	4460.2	4188.5	3649.5	3163.0	2946.1	2980.3	3103.7	3220.1
30°	5138.5	5138.5	5003.8	4597.3	4003.5	3400.6	3058.0	3042.0	3060.3	3215.6
32.5°	5625.0	5558.7	5364.6	5095.1	4448.8	3617.5	3147.1	3151.6	3151.6	3300.1
35°	5880.7	5988.1	5857.9	5419.4	4789.1	3978.4	3361.7	3327.5	3302.4	3393.7
37.5°	6255.3	6319.2	6182.2	5924.1	5211.6	4270.7	3551.3	3523.9	3377.7	3466.8
40°	6481.4	6470.0	6465.4	6346.6	5771.1	4615.5	3829.9	3759.1	3562.7	3724.9
42.5°	6609.3	6586.4	6867.3	6794.3	6298.7	5122.5	4179.3	4140.5	3923.5	4183.9
45°	6753.2	6922.2	7152.8	7358.4	6913.0	5835.1	4770.8	4716.0	4521.9	4853.0
47.5°	6878.8	7086.6	7381.2	7600.4	7468.0	6609.3	5501.6	5515.3	5387.4	5727.7
50°	7088.9	7109.4	7509.1	7952.1	8054.9	7324.1	6483.7	6460.8	6403.7	6881.0
52.5°	7024.9	7086.6	7591.3	8157.7	8326.7	8080.0	7538.8	7607.3	7531.9	8132.6
55°	5983.5	6168.5	7541.1	8374.6	8970.7	8934.2	8895.3	8849.7	8845.1	9539.4
57.5°	5510.8	5661.5	6643.5	8614.4	9660.4	9929.9	10181.1	10231.4	10229.1	11067.2
60°	5200.2	5355.5	6280.4	8484.3	10247.3	11233.9	11715.8	11722.7	11709.0	12700.1
62.5°	4592.7	4743.4	5652.4	7771.7	10409.5	12437.5	13510.9	13599.9	12971.9	14106.9
65°	3861.9	3985.2	4786.8	6682.4	9977.9	13202.6	14860.6	14755.5	14036.1	14910.8
67°	3158.5	3240.7	4021.7	5736.9	8849.7	12834.9	15251.1	15337.9	14527.2	14945.1
67.5°	2957.5	3032.9	3770.5	5414.9	8420.3	12556.3	15264.8	15251.1	14536.3	14951.9
70°	2053.1	2085.1	2569.3	3724.9	6202.8	10608.2	14150.3	14182.3	13926.5	14141.2
72.5°	1361.1	1409.1	1717.4	2347.7	3656.3	7719.2	11827.7	12170.3	12008.1	11594.8
75°	877.0	904.4	1123.6	1397.7	1799.6	4396.3	8737.8	8966.1	8593.9	7171.1
77.5°	491.0	520.7	678.3	849.6	877.0	1829.3	4907.9	5191.0	4398.6	3046.6
80°	306.0	344.9	511.6	504.7	417.9	671.4	2023.4	2167.3	1758.5	1048.3
82.5°	230.7	260.4	395.1	354.0	235.2	299.2	758.2	813.0	644.0	404.2
85°	157.6	198.7	285.5	219.2	123.3	143.9	301.5	324.3	294.6	196.4
87.5°	57.1	84.5	148.4	109.6	54.8	43.4	98.2	109.6	105.1	89.1
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°
3030.6	0°	3030.6	3030.6	3030.6	3030.6	3030.6	3030.6	3030.6	3030.6	3030.6	3030.6
3058.0	2.5°	3101.4	3133.4	3149.3	3243.0	3281.8	3274.9	3284.1	3297.8	3311.5	3329.8
3096.8	5°	3126.5	3224.7	3277.2	3386.9	3459.9	3428.0	3469.1	3457.7	3441.7	3439.4
3167.6	7.5°	3208.7	3334.3	3491.9	3521.6	3553.6	3473.6	3405.1	3311.5	3288.7	3208.7
3227.0	10°	3354.9	3457.7	3649.5	3660.9	3519.3	3313.8	3160.8	2966.6	2964.4	2847.9
3318.3	12.5°	3494.2	3610.7	3766.0	3699.7	3361.7	3080.8	2831.9	2619.5	2530.4	2471.1
3373.2	15°	3581.0	3772.8	3855.0	3569.6	3085.4	2706.3	2384.3	2155.9	2064.5	2021.2
3441.7	17.5°	3660.9	3928.1	3891.6	3341.2	2745.1	2320.3	1936.7	1738.0	1712.8	1680.9
3551.3	20°	3770.5	3985.2	3761.4	3044.3	2359.2	1822.5	1578.1	1482.2	1505.0	1518.7
3562.7	22.5°	3873.3	4014.9	3597.0	2720.0	1863.6	1443.4	1322.3	1342.9	1377.1	1422.8
3590.1	25°	3919.0	4062.9	3375.4	2272.4	1418.2	1215.0	1187.6	1221.8	1278.9	1281.2
3628.9	27.5°	3948.7	4028.6	3108.2	1836.2	1121.3	1062.0	1103.1	1128.2	1135.0	1162.4
3711.2	30°	4001.2	3957.8	2770.2	1313.2	940.9	943.2	995.7	995.7	995.7	1016.3
3793.4	32.5°	4092.5	3909.8	2375.1	959.2	810.7	883.8	870.1	865.6	856.4	831.3
3898.4	35°	4149.6	3779.7	1875.0	710.3	728.5	810.7	806.2	735.4	616.6	557.2
4165.6	37.5°	4268.4	3713.4	1379.4	548.1	680.6	774.2	749.1	577.8	447.6	390.5
4496.8	40°	4524.2	3670.0	954.6	479.6	648.6	755.9	669.1	493.3	342.6	242.1
5008.3	42.5°	4837.1	3672.3	648.6	452.2	650.9	794.8	644.0	422.5	242.1	194.1
5691.2	45°	5257.3	3638.1	445.3	452.2	692.0	858.7	660.0	383.7	235.2	246.6
6547.6	47.5°	5709.5	3667.8	331.1	411.1	698.8	861.0	602.9	376.8	226.1	285.5
7479.4	50°	6237.0	3697.4	274.1	379.1	701.1	833.6	555.0	367.7	235.2	301.5
8548.2	52.5°	6780.6	3791.1	232.9	358.6	728.5	822.2	555.0	381.4	235.2	262.6
9909.3	55°	7591.3	4030.9	335.7	447.6	829.0	897.5	682.9	534.4	328.9	338.0
11213.4	57.5°	8486.5	4277.5	374.5	470.5	851.9	808.5	735.4	589.2	347.1	349.4
12227.4	60°	9075.8	4286.7	372.3	459.0	797.0	698.8	719.4	621.2	354.0	299.2
12855.4	62.5°	9311.0	4008.0	388.2	459.0	742.2	653.2	737.7	669.1	365.4	374.5
13033.6	65°	9043.8	3432.5	374.5	411.1	653.2	584.6	742.2	678.3	399.7	376.8
12713.8	67°	8625.9	2957.5	381.4	390.5	607.5	555.0	781.1	712.5	463.6	452.2
12547.1	67.5°	8507.1	2831.9	379.1	379.1	591.5	545.8	790.2	712.5	472.7	468.2
11074.1	70°	7497.7	2295.2	388.2	374.5	523.0	518.4	840.4	751.4	543.5	548.1
8134.8	72.5°	5707.2	1740.2	386.0	374.5	454.5	495.6	847.3	776.5	591.5	548.1
4556.2	75°	3243.0	1041.4	340.3	326.6	358.6	431.6	792.5	739.9	575.5	491.0
1820.2	77.5°	1340.6	536.7	312.9	294.6	296.9	351.7	660.0	689.7	548.1	417.9
607.5	80°	500.1	322.0	251.2	235.2	228.4	258.1	470.5	550.4	468.2	342.6
267.2	82.5°	260.4	201.0	171.3	171.3	155.3	164.4	253.5	365.4	354.0	235.2
107.3	85°	132.5	114.2	98.2	95.9	86.8	77.6	127.9	217.0	203.3	130.2
48.0	87.5°	70.8	63.9	41.1	38.8	32.0	20.6	22.8	43.4	70.8	57.1
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>
3030.6
3348.0
3459.9
3236.1
2843.3
2457.4
2012.0
1696.9
1502.7
1397.7
1304.0
1187.6
1039.1
817.6
584.6
388.2
235.2
189.6
251.2
317.4
349.4
269.5
356.3
338.0
308.3
379.1
370.0
445.3
459.0
507.0
486.4
438.5
395.1
312.9
185.0
107.3
41.1
0.0

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