

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: P477313

Luminaire Tested: **IFLD-S-SA6A-730-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477313
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-730-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (96) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

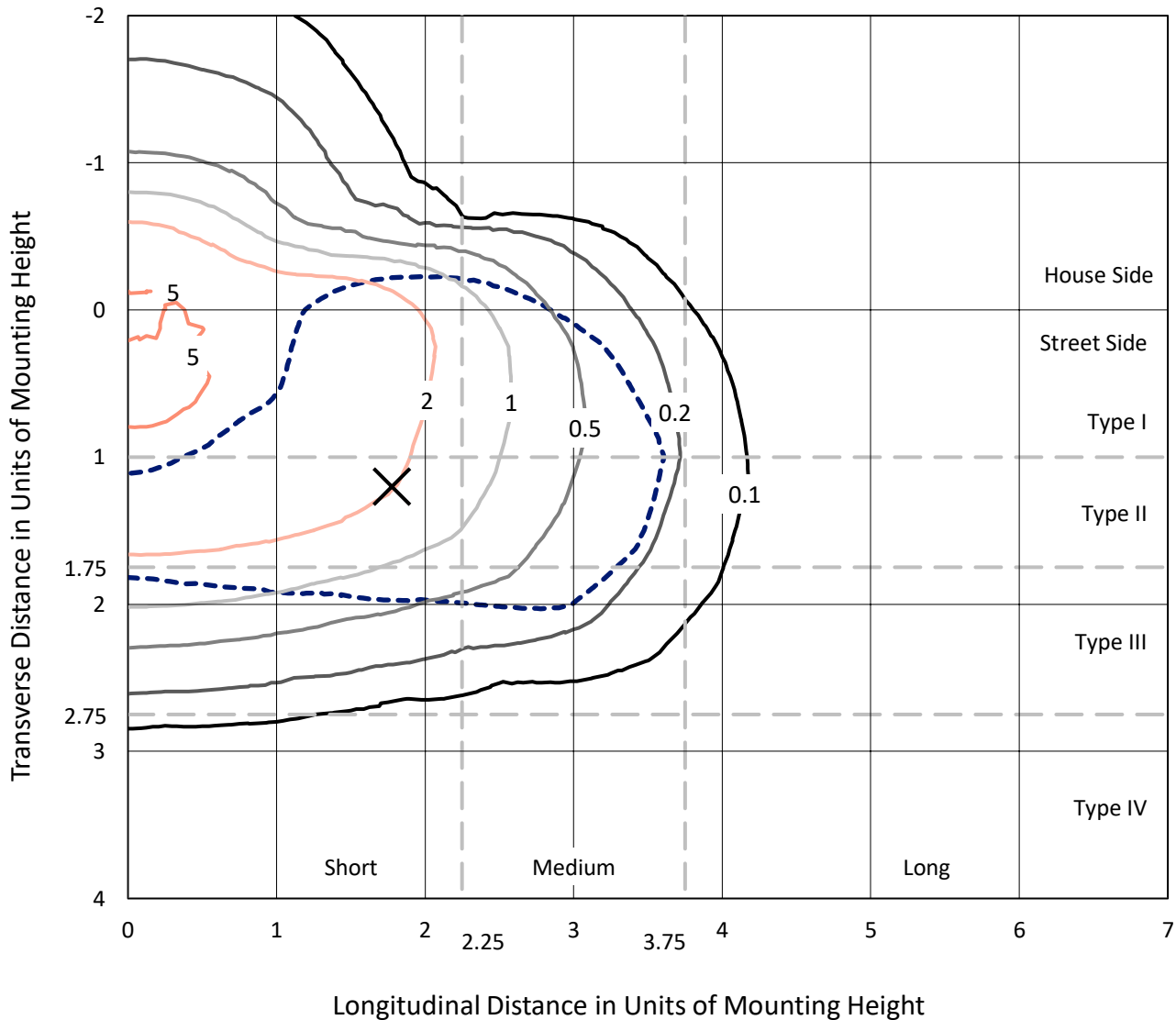
Lumens per Lamp: N/A
Luminaire Lumens: 25032.2 lumens
Efficiency: N/A
Efficacy: 132.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 189.6
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

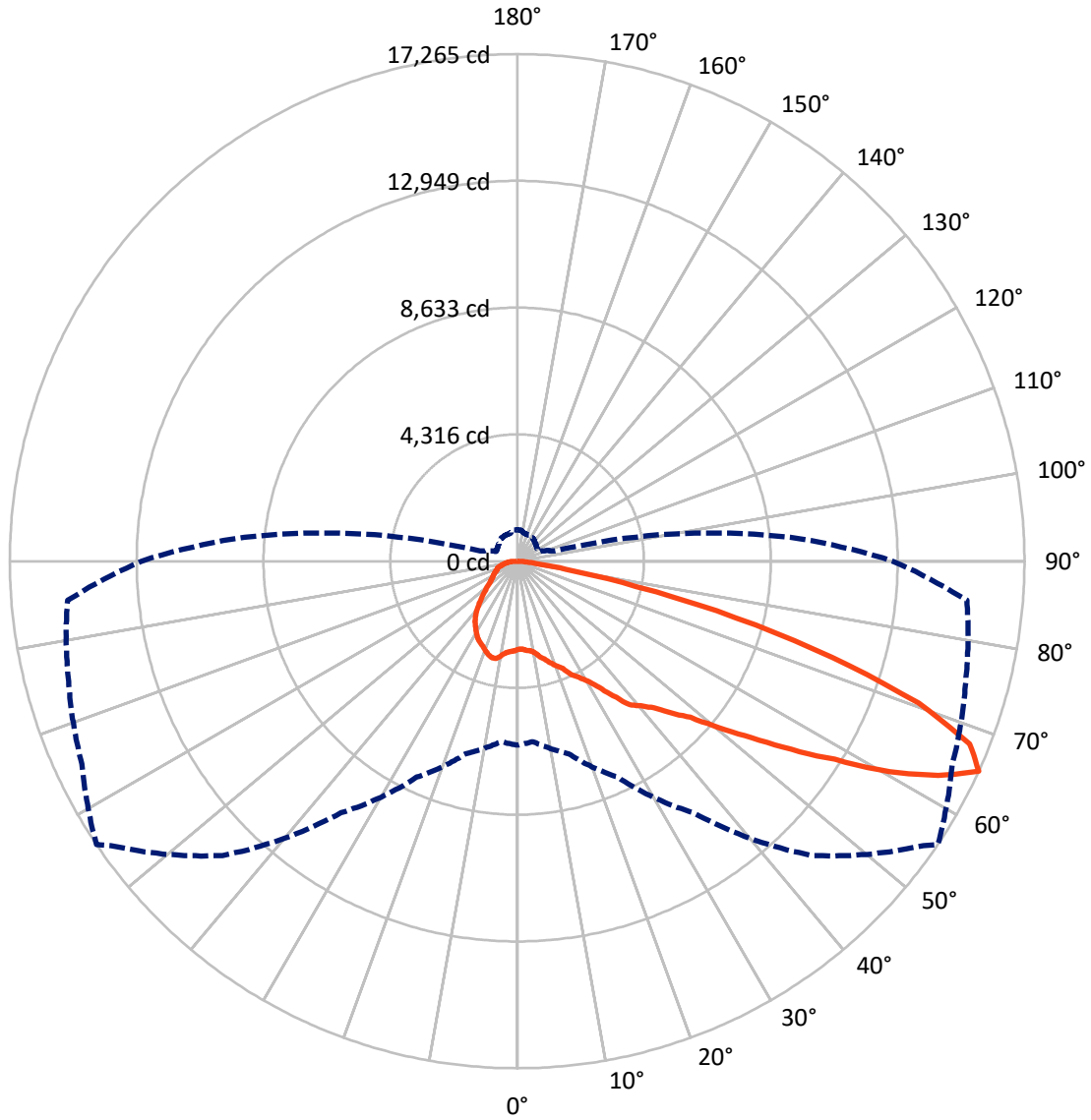
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5613.9	0.0	5613.9
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	19418.3	0.0	19418.3
	% Fixture	77.6	0.0	77.6
Total	Lumens	25032.2	0.0	25032.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.7	1.2
10°-20°	966.8	3.9
20°-30°	1721.5	6.9
30°-40°	2577.9	10.3
40°-50°	3819.4	15.3
50°-60°	5885.2	23.5
60°-70°	6662.7	26.6
70°-80°	2765.1	11.0
80°-90°	335.9	1.3
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°	25032.2	100.0
0°-180°	25032.2	100.0

Coefficient of Utilization



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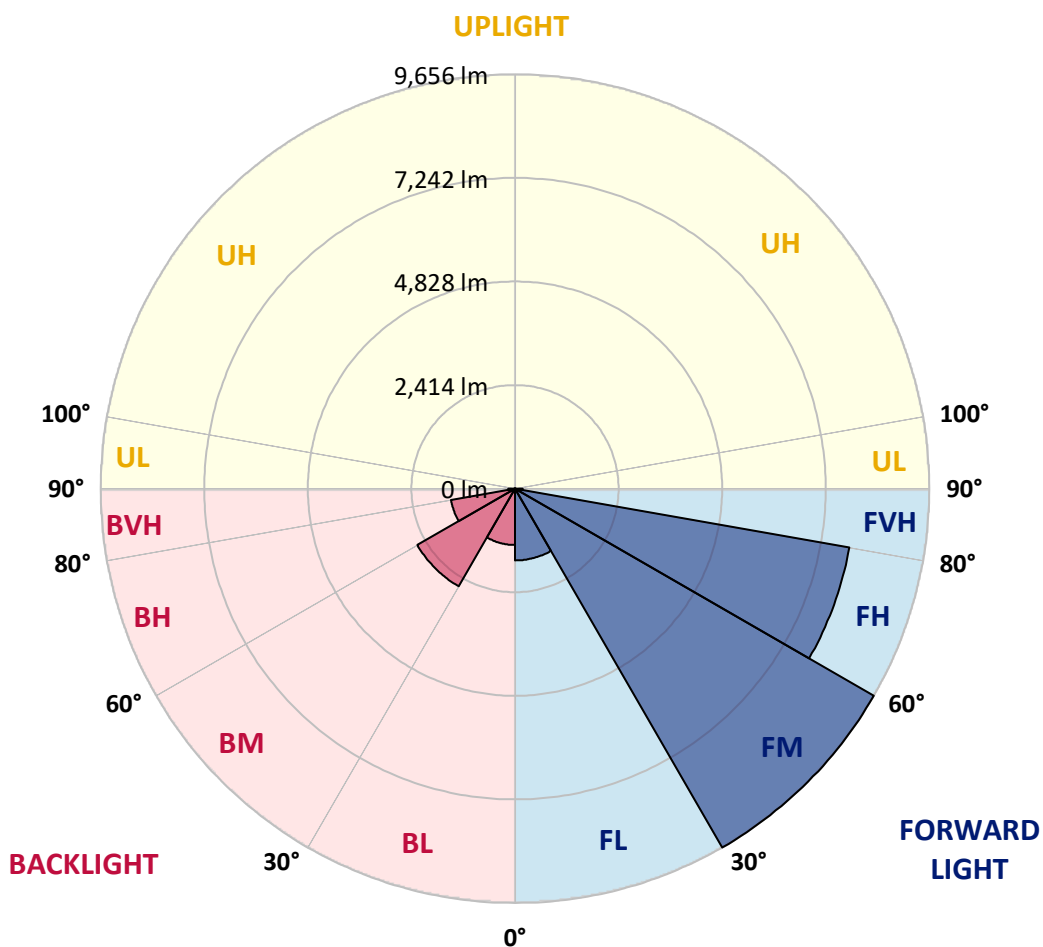
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1672.9	6.7			
FM (30°-60°)	9656.3	38.6			
FH (60°-80°)	7911.9	31.6			G4/12000
FVH (80°-90°)	177.2	0.7			G2/225
BL (0°-30°)	1313.1	5.2	B3/2500		
BM (30°-60°)	2626.1	10.5	B3/5000		
BH (60°-80°)	1515.9	6.1	B3/2500		G3/2500
BVH (80°-90°)	158.7	0.6			G2/225
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°	3004.6	3004.6	3004.6	3004.6	3004.6	3004.6	3004.6	3004.6	3004.6	3004.6
2.5°	2926.0	2941.7	2931.2	2962.7	2988.9	2988.9	3009.8	2994.1	3015.1	3043.9
5°	3022.9	2960.0	2994.1	3009.8	3002.0	3015.1	2994.1	3046.5	3012.4	3067.4
7.5°	3046.5	3070.1	3098.9	3072.7	3096.3	3083.2	3085.8	3077.9	3059.6	3104.1
10°	3219.4	3185.3	3250.8	3211.5	3206.3	3201.0	3190.6	3151.3	3195.8	3198.4
12.5°	3418.5	3387.0	3384.4	3353.0	3394.9	3318.9	3334.6	3313.7	3321.5	3332.0
15°	3562.5	3549.4	3609.7	3573.0	3518.0	3484.0	3520.6	3463.0	3491.8	3486.6
17.5°	3848.1	3845.4	3800.9	3740.7	3709.2	3659.5	3651.6	3628.0	3649.0	3638.5
20°	4047.1	4076.0	4083.8	4013.1	3892.6	3837.6	3824.5	3806.2	3829.7	3821.9
22.5°	4351.0	4306.5	4340.5	4217.4	4172.9	4041.9	3994.8	3968.6	4081.2	4052.4
25°	4544.9	4592.0	4558.0	4516.0	4416.5	4254.1	4220.0	4277.7	4322.2	4290.8
27.5°	4982.3	4935.2	4903.7	4778.0	4712.5	4542.2	4502.9	4482.0	4492.5	4510.8
30°	5315.0	5341.2	5270.5	5181.4	5016.4	4843.5	4751.8	4733.5	4696.8	4665.4
32.5°	5789.1	5749.8	5707.9	5650.3	5508.8	5280.9	5191.9	5123.8	5013.7	4867.1
35°	6017.0	6129.7	6098.2	5943.7	5836.3	5749.8	5723.6	5618.9	5527.2	5296.7
37.5°	6396.8	6444.0	6399.5	6349.7	6299.9	6208.2	6176.8	6205.6	6024.9	5645.0
40°	6643.1	6742.6	6834.3	6695.5	6685.0	6703.3	6509.5	6475.4	6103.5	5904.4
42.5°	7146.0	7187.9	7206.3	7201.0	7261.3	7261.3	6891.9	6818.6	6554.0	6391.6
45°	7811.4	7845.4	7910.9	7958.1	7890.0	7924.0	7397.5	7368.7	7132.9	7101.5
47.5°	8387.7	8468.9	8615.6	8754.4	8843.5	8728.2	8151.9	7947.6	7887.4	8076.0
50°	8890.6	8793.7	9136.9	9278.3	9668.6	9859.8	8984.9	8903.7	8806.8	9168.3
52.5°	8940.4	9071.4	9556.0	9838.9	10643.1	10996.7	10006.5	9972.5	9854.6	10271.1
55°	9296.6	9280.9	9768.2	10381.1	11337.2	11931.9	11337.2	11316.3	11059.6	11455.1
57.5°	9236.4	9396.2	9781.3	10637.8	11963.3	12935.2	12880.1	12736.1	12377.2	12699.4
60°	9032.1	9074.0	9542.9	10630.0	12327.4	13964.6	14546.2	14575.0	13841.5	14098.2
62.5°	7874.3	7971.2	8565.8	9794.4	12068.1	14674.5	16172.9	16070.7	15483.9	15190.6
65°	6263.3	6166.3	6784.5	8112.6	10454.5	14171.6	16885.4	17265.2	16343.1	15806.1
67.5°	3840.2	3816.6	4411.3	5582.2	7821.9	12060.2	16316.9	16612.9	16104.8	15675.2
70°	1977.7	1917.5	2289.5	3114.6	4916.8	8848.7	14200.4	14491.1	14975.8	14058.9
72.5°	922.1	909.0	1108.1	1532.4	2504.3	5202.4	10996.7	11206.3	12227.9	11853.3
75°	542.2	550.1	662.7	801.6	1220.7	2451.9	7298.0	7704.0	8812.0	8542.2
77.5°	406.0	406.0	471.5	558.0	712.5	948.3	3601.8	4138.8	5152.6	4633.9
80°	298.6	303.9	361.5	419.1	495.1	489.8	1430.3	1676.5	2362.8	2019.6
82.5°	233.1	241.0	280.3	311.7	348.4	296.0	586.8	631.3	971.8	772.8
85°	162.4	167.6	220.0	212.2	212.2	165.0	243.6	256.7	385.1	366.7
87.5°	39.3	44.5	107.4	117.9	89.1	49.8	76.0	86.4	138.8	159.8
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°
3004.6	0°	3004.6	3004.6	3004.6	3004.6	3004.6	3004.6	3004.6	3004.6	3004.6	3004.6
3057.0	2.5°	3017.7	3028.2	3072.7	3049.1	3062.2	3007.2	3051.7	3015.1	3046.5	3030.8
3080.5	5°	3101.5	3077.9	3104.1	3085.8	3085.8	3106.7	3138.2	3114.6	3161.8	3140.8
3098.9	7.5°	3135.6	3138.2	3153.9	3156.5	3143.4	3208.9	3211.5	3203.7	3248.2	3237.7
3224.6	10°	3219.4	3222.0	3250.8	3266.5	3253.4	3277.0	3250.8	3229.9	3227.2	3216.8
3324.2	12.5°	3353.0	3379.2	3373.9	3387.0	3389.6	3290.1	3229.9	3127.7	3114.6	3127.7
3470.9	15°	3476.1	3465.6	3470.9	3497.0	3387.0	3227.2	3119.8	3033.4	3038.6	3041.3
3662.1	17.5°	3622.8	3630.6	3638.5	3518.0	3316.3	3127.7	3033.4	3033.4	3007.2	3017.7
3795.7	20°	3790.4	3759.0	3690.9	3520.6	3193.2	3012.4	2983.6	2983.6	2952.2	2931.2
3939.7	22.5°	3921.4	3858.5	3756.4	3439.4	3083.2	2967.9	2897.2	2847.4	2810.7	2768.8
4099.5	25°	4005.2	3971.2	3772.1	3355.6	3002.0	2850.0	2745.2	2669.3	2622.1	2567.1
4225.3	27.5°	4133.6	4068.1	3816.6	3258.7	2912.9	2732.2	2569.7	2451.9	2362.8	2305.2
4416.5	30°	4306.5	4212.2	3785.2	3119.8	2776.7	2527.8	2336.6	2184.7	2082.5	2035.4
4597.2	32.5°	4447.9	4324.8	3759.0	2994.1	2624.8	2320.9	2066.8	1912.2	1854.6	1794.4
4901.1	35°	4717.7	4474.1	3740.7	2923.4	2488.5	2113.9	1846.8	1713.2	1639.8	1550.8
5081.9	37.5°	4924.7	4733.5	3696.1	2776.7	2313.0	1912.2	1679.1	1558.6	1448.6	1354.3
5501.0	40°	5249.5	5095.0	3698.8	2569.7	2106.1	1739.4	1548.1	1422.4	1283.6	1202.4
6121.8	42.5°	5859.8	5451.2	3714.5	2404.7	1873.0	1597.9	1430.3	1280.9	1142.1	1074.0
6829.1	45°	6609.0	5941.1	3617.5	2255.4	1634.6	1464.3	1288.8	1139.5	1050.4	1000.7
7790.4	47.5°	7470.8	6420.4	3486.6	1975.1	1435.5	1322.9	1157.8	1071.4	1005.9	977.1
9029.5	50°	8434.8	7106.7	3449.9	1718.4	1280.9	1202.4	1095.0	1029.5	984.9	950.9
10425.7	52.5°	9676.5	7905.7	3376.6	1453.8	1147.3	1105.4	1071.4	1026.8	987.6	958.7
11727.6	55°	10863.1	8791.1	3298.0	1236.4	1053.0	1058.3	1076.6	1037.3	1003.3	958.7
13186.6	57.5°	12199.1	9694.8	3007.2	1076.6	982.3	1034.7	1071.4	1026.8	992.8	958.7
14679.7	60°	13024.2	10203.0	2438.8	937.8	919.4	990.2	1039.9	992.8	956.1	969.2
15366.1	62.5°	13359.5	9935.8	1838.9	851.3	874.9	929.9	990.2	971.8	945.6	995.4
15358.2	65°	12788.5	9320.2	1315.0	778.0	814.7	869.7	945.6	966.6	974.5	1071.4
14106.1	67.5°	11379.2	8115.2	966.6	717.7	751.8	833.0	977.1	1011.1	1005.9	1126.4
11837.6	70°	9105.4	6347.1	754.4	668.0	728.2	861.8	1021.6	1021.6	984.9	1126.4
9029.5	72.5°	6624.7	4474.1	649.6	610.3	668.0	791.1	1016.4	1013.8	966.6	1029.5
5749.8	75°	4010.5	2603.8	573.7	552.7	573.7	678.5	971.8	956.1	890.6	885.4
2766.2	77.5°	1998.7	1309.8	468.9	489.8	500.3	568.4	854.0	877.5	788.5	767.5
1092.3	80°	843.5	571.1	390.3	421.7	421.7	479.4	709.9	725.6	654.9	615.6
432.2	82.5°	385.1	327.4	332.7	366.7	343.2	372.0	563.2	581.5	531.8	466.3
183.4	85°	162.4	186.0	254.1	288.1	254.1	241.0	387.7	408.6	345.8	288.1
78.6	87.5°	73.3	102.2	159.8	209.6	128.4	112.6	206.9	214.8	172.9	128.4
0.0	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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180°
3004.6
3002.0
3112.0
3222.0
3216.8
3132.9
3077.9
3020.3
2899.8
2745.2
2577.6
2331.4
2061.6
1791.7
1542.9
1356.9
1210.2
1079.2
1011.1
971.8
956.1
956.1
956.1
956.1
958.7
982.3
1071.4
1134.2
1102.8
992.8
874.9
754.4
602.5
455.8
290.8
120.5
0.0

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