

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: P477557

Luminaire Tested: **IFLD-L-SA7A-830-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477557
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-830-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

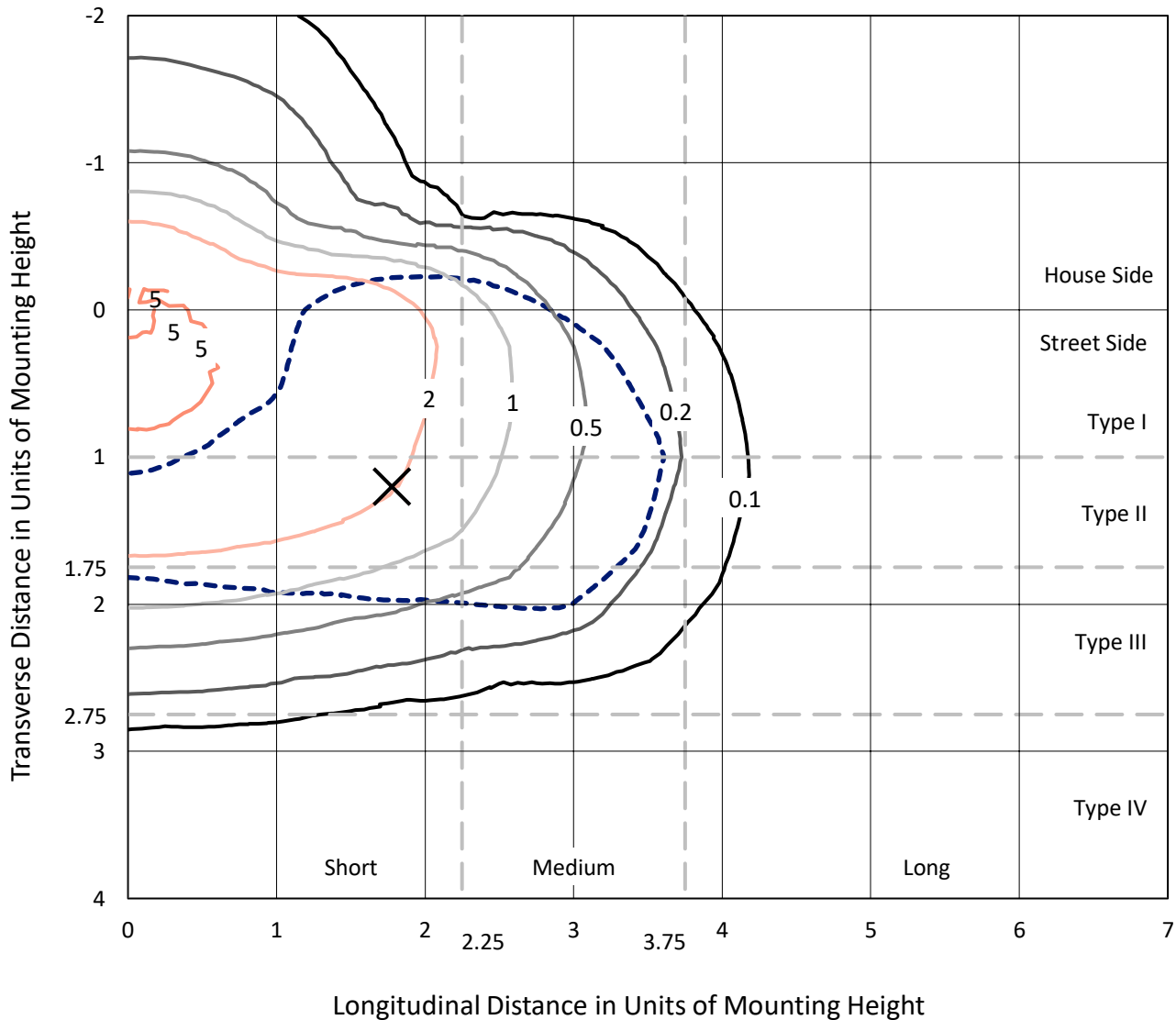
Lumens per Lamp: N/A
Luminaire Lumens: 25332 lumens
Efficiency: N/A
Efficacy: 116.4 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 217.6
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

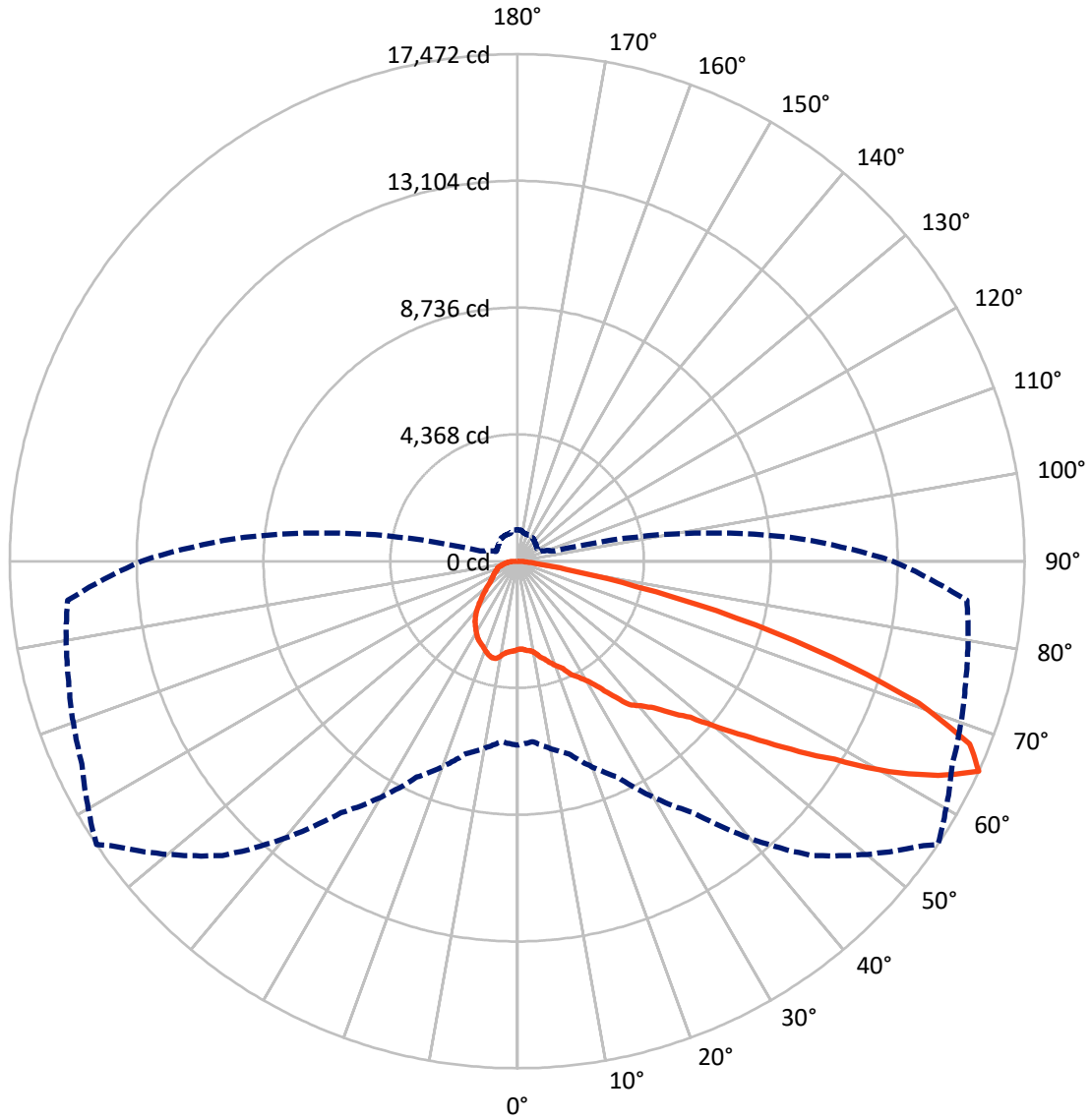
✕ Max cd
 - - - 1/2 Max cd



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	5681.1	0.0	5681.1
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	19650.9	0.0	19650.9
	% Fixture	77.6	0.0	77.6
Total	Lumens	25332.0	0.0	25332.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.3	1.2
10°-20°	978.4	3.9
20°-30°	1742.1	6.9
30°-40°	2608.7	10.3
40°-50°	3865.2	15.3
50°-60°	5955.7	23.5
60°-70°	6742.5	26.6
70°-80°	2798.2	11.0
80°-90°	340.0	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°	25332.0	100.0
0°-180°	25332.0	100.0

Coefficient of Utilization

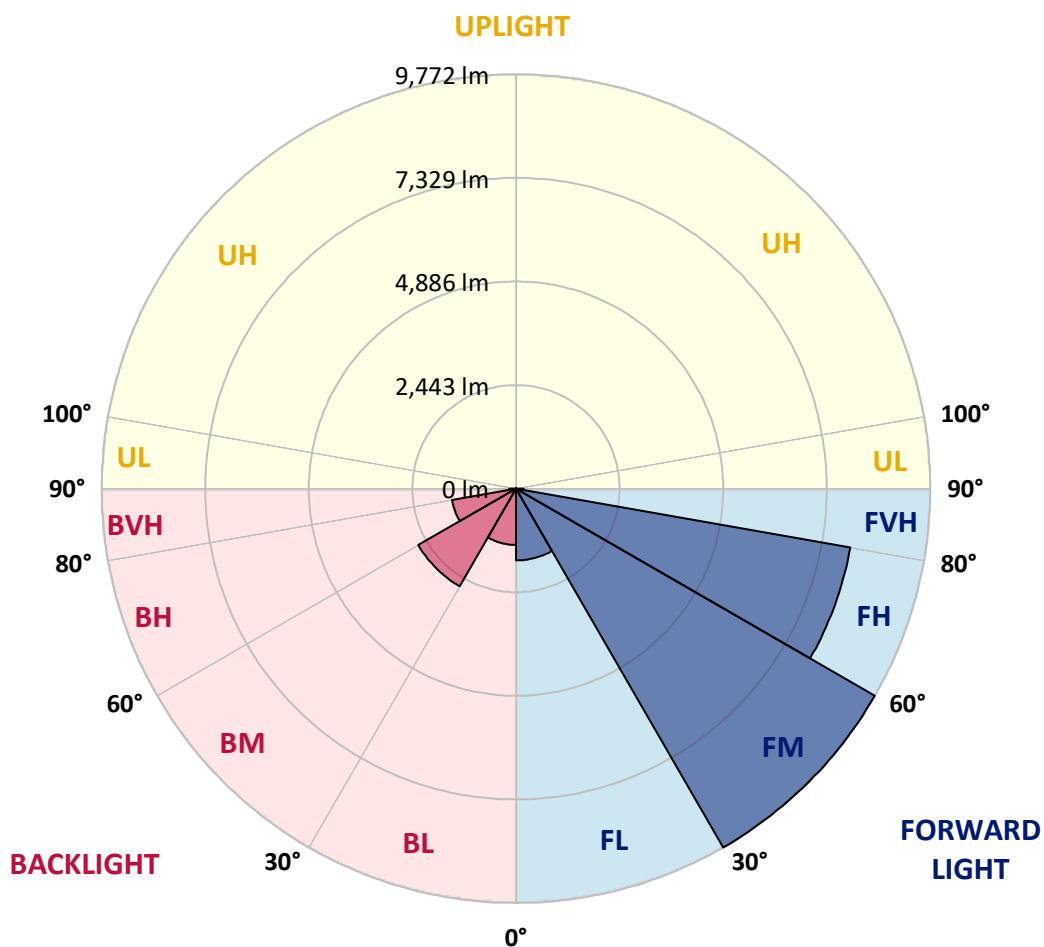


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1692.9	6.7			
FM (30°-60°)	9772.0	38.6			
FH (60°-80°)	8006.7	31.6			G4/12000
FVH (80°-90°)	179.3	0.7			G2/225
BL (0°-30°)	1328.9	5.2	B3/2500		
BM (30°-60°)	2657.5	10.5	B3/5000		
BH (60°-80°)	1534.1	6.1	B3/2500		G3/2500
BVH (80°-90°)	160.6	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°	3040.6	3040.6	3040.6	3040.6	3040.6	3040.6	3040.6	3040.6	3040.6	3040.6
2.5°	2961.0	2976.9	2966.3	2998.2	3024.7	3024.7	3045.9	3030.0	3051.2	3080.3
5°	3059.1	2995.5	3030.0	3045.9	3037.9	3051.2	3030.0	3083.0	3048.5	3104.2
7.5°	3083.0	3106.8	3136.0	3109.5	3133.3	3120.1	3122.7	3114.8	3096.2	3141.3
10°	3257.9	3223.5	3289.7	3250.0	3244.7	3239.4	3228.8	3189.0	3234.1	3236.7
12.5°	3459.4	3427.6	3424.9	3393.1	3435.5	3358.7	3374.6	3353.4	3361.3	3371.9
15°	3605.2	3591.9	3652.9	3615.8	3560.1	3525.7	3562.8	3504.5	3533.6	3528.3
17.5°	3894.2	3891.5	3846.4	3785.5	3753.7	3703.3	3695.3	3671.5	3692.7	3682.1
20°	4095.6	4124.8	4132.7	4061.2	3939.2	3883.5	3870.3	3851.7	3875.6	3867.6
22.5°	4403.1	4358.1	4392.5	4267.9	4222.9	4090.3	4042.6	4016.1	4130.1	4100.9
25°	4599.3	4647.0	4612.5	4570.1	4469.4	4305.0	4270.6	4328.9	4374.0	4342.2
27.5°	5042.0	4994.3	4962.5	4835.2	4768.9	4596.6	4556.9	4535.7	4546.3	4564.8
30°	5378.6	5405.2	5333.6	5243.5	5076.4	4901.5	4808.7	4790.2	4753.0	4721.2
32.5°	5858.5	5818.7	5776.3	5718.0	5574.8	5344.2	5254.1	5185.1	5073.8	4925.3
35°	6089.1	6203.1	6171.3	6014.9	5906.2	5818.7	5792.2	5686.1	5593.4	5360.1
37.5°	6473.5	6521.2	6476.1	6425.7	6375.4	6282.6	6250.8	6279.9	6097.0	5712.7
40°	6722.6	6823.4	6916.2	6775.7	6765.1	6783.6	6587.5	6553.0	6176.6	5975.1
42.5°	7231.6	7274.0	7292.6	7287.3	7348.3	7348.3	6974.5	6900.3	6632.5	6468.2
45°	7904.9	7939.4	8005.7	8053.4	7984.5	8018.9	7486.1	7456.9	7218.4	7186.6
47.5°	8488.1	8570.3	8718.8	8859.3	8949.4	8832.8	8249.6	8042.8	7981.8	8172.7
50°	8997.1	8899.0	9246.3	9389.4	9784.4	9977.9	9092.5	9010.4	8912.3	9278.1
52.5°	9047.5	9180.0	9670.4	9956.7	10770.5	11128.4	10126.4	10091.9	9972.6	10394.1
55°	9408.0	9392.1	9885.2	10505.5	11473.0	12074.8	11473.0	11451.8	11192.0	11592.3
57.5°	9347.0	9508.7	9898.4	10765.2	12106.6	13090.1	13034.4	12888.6	12525.4	12851.5
60°	9140.3	9182.7	9657.2	10757.3	12475.1	14131.9	14720.4	14749.5	14007.3	14267.1
62.5°	7968.6	8066.6	8668.4	9911.7	12212.6	14850.3	16366.6	16263.2	15669.4	15372.5
65°	6338.3	6240.2	6865.8	8209.8	10579.7	14341.3	17087.6	17472.0	16538.9	15995.4
67.5°	3886.2	3862.3	4464.1	5649.0	7915.5	12204.7	16512.4	16811.9	16297.6	15862.9
70°	2001.4	1940.4	2316.9	3151.9	4975.7	8954.7	14370.5	14664.7	15155.1	14227.3
72.5°	933.1	919.9	1121.3	1550.8	2534.2	5264.7	11128.4	11340.5	12374.3	11995.3
75°	548.7	556.7	670.7	811.2	1235.3	2481.2	7385.4	7796.3	8917.6	8644.5
77.5°	410.9	410.9	477.2	564.6	721.0	959.6	3645.0	4188.4	5214.3	4689.4
80°	302.2	307.5	365.8	424.1	501.0	495.7	1447.4	1696.6	2391.1	2043.8
82.5°	235.9	243.9	283.6	315.5	352.6	299.6	593.8	638.9	983.5	782.0
85°	164.4	169.7	222.7	214.7	214.7	167.0	246.5	259.8	389.7	371.1
87.5°	39.8	45.1	108.7	119.3	90.1	50.4	76.9	87.5	140.5	161.7
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°
3040.6	0°	3040.6	3040.6	3040.6	3040.6	3040.6	3040.6	3040.6	3040.6	3040.6	3040.6
3093.6	2.5°	3053.8	3064.4	3109.5	3085.6	3098.9	3043.2	3088.3	3051.2	3083.0	3067.1
3117.4	5°	3138.6	3114.8	3141.3	3122.7	3122.7	3144.0	3175.8	3151.9	3199.6	3178.4
3136.0	7.5°	3173.1	3175.8	3191.7	3194.3	3181.1	3247.3	3250.0	3242.0	3287.1	3276.5
3263.2	10°	3257.9	3260.6	3289.7	3305.7	3292.4	3316.3	3289.7	3268.5	3265.9	3255.3
3364.0	12.5°	3393.1	3419.6	3414.3	3427.6	3430.2	3329.5	3268.5	3165.2	3151.9	3165.2
3512.4	15°	3517.7	3507.1	3512.4	3538.9	3427.6	3265.9	3157.2	3069.7	3075.0	3077.7
3705.9	17.5°	3666.2	3674.1	3682.1	3560.1	3356.0	3165.2	3069.7	3069.7	3043.2	3053.8
3841.1	20°	3835.8	3804.0	3735.1	3562.8	3231.4	3048.5	3019.4	3019.4	2987.5	2966.3
3986.9	22.5°	3968.4	3904.8	3801.4	3480.6	3120.1	3003.5	2931.9	2881.5	2844.4	2802.0
4148.6	25°	4053.2	4018.7	3817.3	3395.8	3037.9	2884.2	2778.1	2701.3	2653.5	2597.9
4275.9	27.5°	4183.1	4116.8	3862.3	3297.7	2947.8	2764.9	2600.5	2481.2	2391.1	2332.8
4469.4	30°	4358.1	4262.6	3830.5	3157.2	2809.9	2558.1	2364.6	2210.8	2107.5	2059.7
4652.3	32.5°	4501.2	4376.6	3804.0	3030.0	2656.2	2348.7	2091.5	1935.1	1876.8	1815.9
4959.8	35°	4774.2	4527.7	3785.5	2958.4	2518.3	2139.3	1868.9	1733.7	1659.5	1569.3
5142.7	37.5°	4983.7	4790.2	3740.4	2809.9	2340.7	1935.1	1699.2	1577.3	1465.9	1370.5
5566.9	40°	5312.4	5156.0	3743.1	2600.5	2131.3	1760.2	1566.7	1439.4	1298.9	1216.8
6195.1	42.5°	5930.0	5516.5	3759.0	2433.5	1895.4	1617.0	1447.4	1296.3	1155.8	1086.9
6910.9	45°	6688.2	6012.2	3660.9	2282.4	1654.2	1481.8	1304.2	1153.1	1063.0	1012.6
7883.7	47.5°	7560.3	6497.3	3528.3	1998.8	1452.7	1338.7	1171.7	1084.2	1017.9	988.8
9137.6	50°	8535.9	7191.9	3491.2	1739.0	1296.3	1216.8	1108.1	1041.8	996.7	962.3
10550.5	52.5°	9792.4	8000.4	3417.0	1471.2	1161.1	1118.7	1084.2	1039.1	999.4	970.2
11868.0	55°	10993.2	8896.4	3337.5	1251.2	1065.7	1071.0	1089.5	1049.8	1015.3	970.2
13344.6	57.5°	12345.2	9810.9	3043.2	1089.5	994.1	1047.1	1084.2	1039.1	1004.7	970.2
14855.6	60°	13180.2	10325.2	2468.0	949.0	930.5	1002.0	1052.4	1004.7	967.6	980.8
15550.1	62.5°	13519.5	10054.8	1860.9	861.5	885.4	941.1	1002.0	983.5	957.0	1007.3
15542.1	65°	12941.6	9431.9	1330.7	787.3	824.4	880.1	957.0	978.2	986.1	1084.2
14275.0	67.5°	11515.4	8212.4	978.2	726.3	760.8	843.0	988.8	1023.2	1017.9	1139.9
11979.4	70°	9214.5	6423.1	763.5	676.0	736.9	872.1	1033.8	1033.8	996.7	1139.9
9137.6	72.5°	6704.1	4527.7	657.4	617.7	676.0	800.6	1028.5	1025.9	978.2	1041.8
5818.7	75°	4058.5	2635.0	580.5	559.3	580.5	686.6	983.5	967.6	901.3	896.0
2799.3	77.5°	2022.6	1325.4	474.5	495.7	506.3	575.2	864.2	888.0	797.9	776.7
1105.4	80°	853.6	577.9	395.0	426.8	426.8	485.1	718.4	734.3	662.7	623.0
437.4	82.5°	389.7	331.4	336.7	371.1	347.3	376.4	569.9	588.5	538.1	471.9
185.6	85°	164.4	188.2	257.1	291.6	257.1	243.9	392.3	413.5	349.9	291.6
79.5	87.5°	74.2	103.4	161.7	212.1	129.9	114.0	209.4	217.4	175.0	129.9
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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<u>180°</u>
3040.6
3037.9
3149.3
3260.6
3255.3
3170.5
3114.8
3056.5
2934.5
2778.1
2608.5
2359.3
2086.2
1813.2
1561.4
1373.2
1224.7
1092.2
1023.2
983.5
967.6
967.6
967.6
967.6
970.2
994.1
1084.2
1147.8
1116.0
1004.7
885.4
763.5
609.7
461.3
294.2
121.9
0.0

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