

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: P477675

Luminaire Tested: **IFLD-L-SA7B-727-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477675
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-727-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

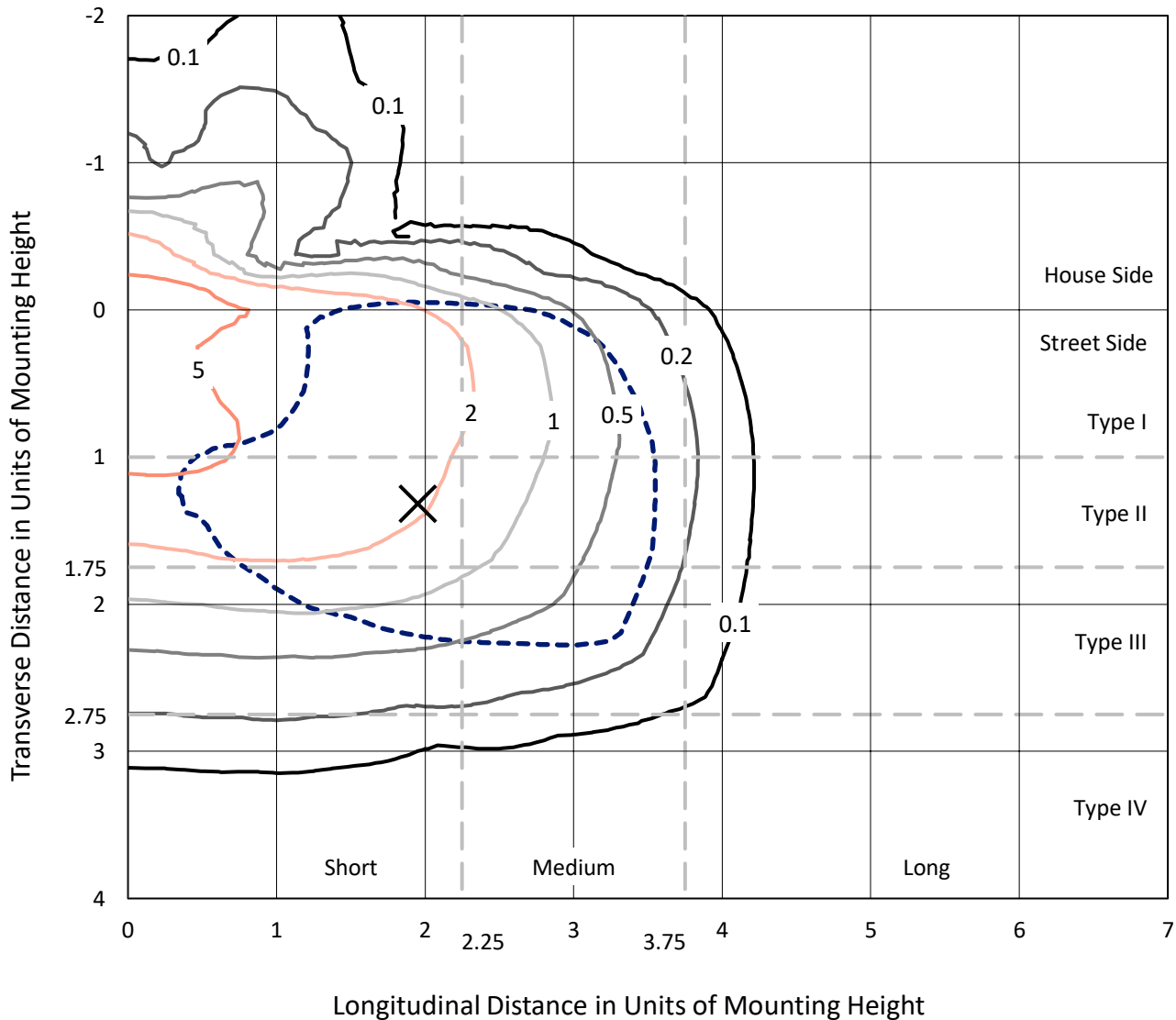
Lumens per Lamp: N/A
Luminaire Lumens: 29255.2 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 281
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

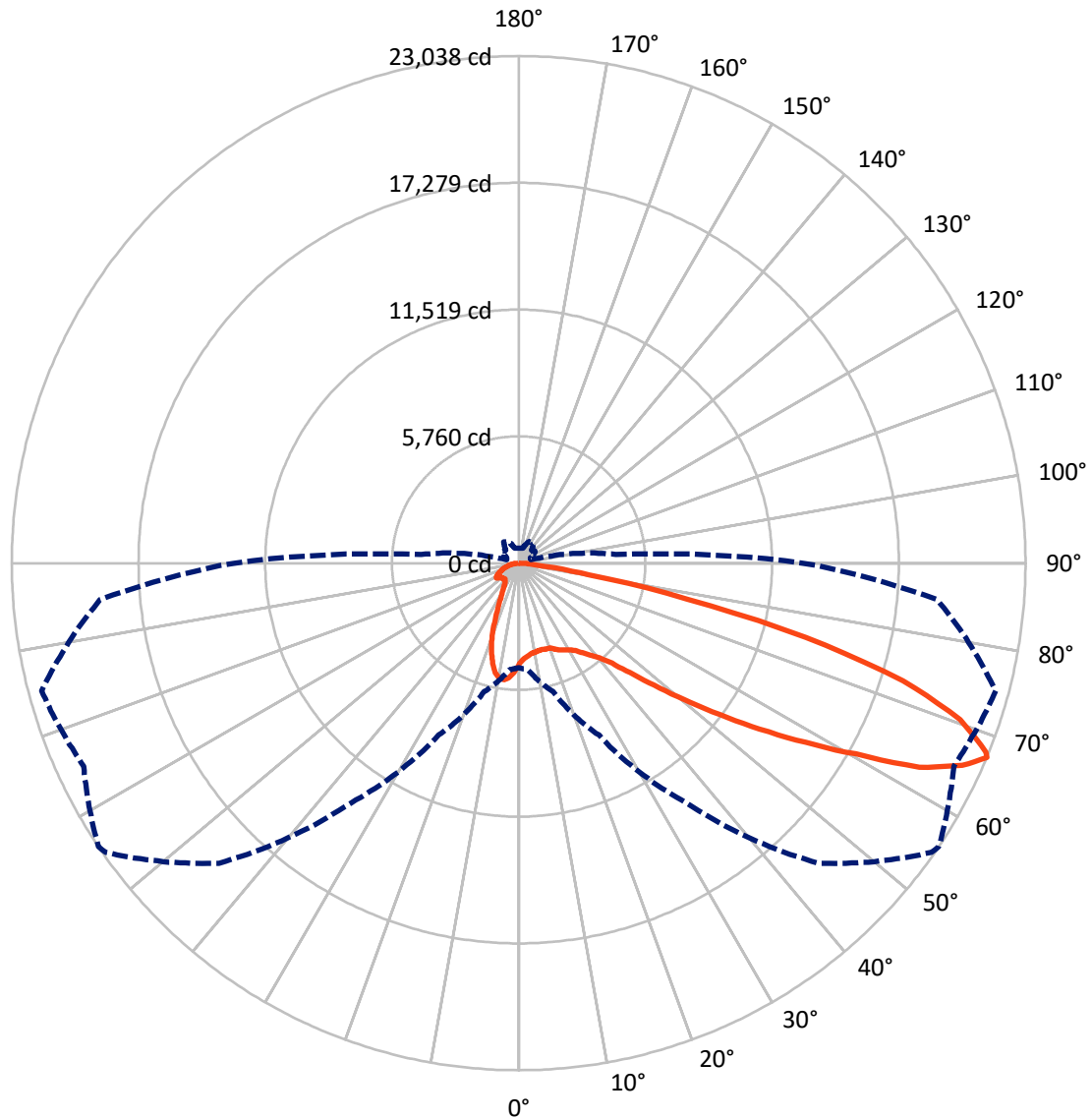
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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	4631.4	0.0	4631.4
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	24623.8	0.0	24623.8
	% Fixture	84.2	0.0	84.2
Total	Lumens	29255.2	0.0	29255.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	438.5	1.5
10°-20°	1196.4	4.1
20°-30°	1876.3	6.4
30°-40°	2678.4	9.2
40°-50°	4042.4	13.8
50°-60°	6434.9	22.0
60°-70°	8226.5	28.1
70°-80°	4011.0	13.7
80°-90°	350.9	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°	29255.2	100.0
0°-180°	29255.2	100.0

Coefficient of Utilization

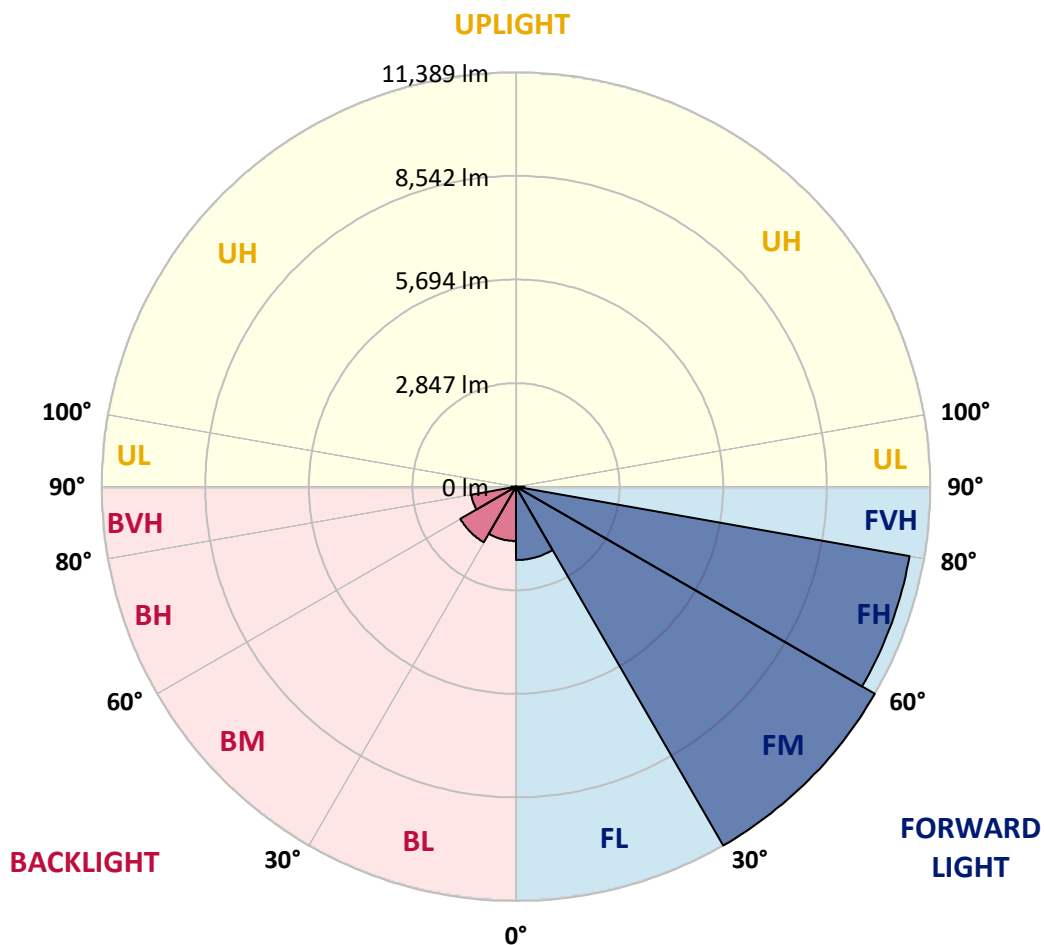


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2016.0	6.9			
FM (30°-60°)	11388.8	38.9			
FH (60°-80°)	10986.0	37.6			G4/12000
FVH (80°-90°)	233.0	0.8			G3/500
BL (0°-30°)	1495.1	5.1	B3/2500		
BM (30°-60°)	1766.9	6.0	B2/2500		
BH (60°-80°)	1251.5	4.3	B3/2500		G3/2500
BVH (80°-90°)	117.9	0.4			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°	4552.0	4552.0	4552.0	4552.0	4552.0	4552.0	4552.0	4552.0	4552.0	4552.0
2.5°	4181.5	4164.4	4185.0	4164.4	4257.0	4311.9	4329.1	4353.1	4438.8	4521.1
5°	4006.6	3931.1	4013.5	4040.9	4047.8	4140.4	4236.4	4253.6	4298.2	4432.0
7.5°	3715.0	3800.8	3769.9	3852.2	3938.0	4030.6	4188.4	4143.8	4308.5	4435.4
10°	3653.3	3660.1	3694.4	3725.3	3800.8	3920.8	4140.4	4112.9	4281.0	4552.0
12.5°	3715.0	3715.0	3704.7	3680.7	3766.5	3883.1	4058.1	4071.8	4335.9	4586.3
15°	3931.1	3972.3	3862.5	3879.7	3845.4	3883.1	4037.5	4068.3	4356.5	4613.8
17.5°	4459.4	4445.7	4315.3	4133.5	3982.6	3958.6	4064.9	4099.2	4335.9	4692.7
20°	4974.0	4946.5	4720.1	4531.4	4233.0	4092.4	4109.5	4112.9	4370.2	4744.1
22.5°	5546.8	5618.8	5371.9	4987.7	4617.2	4267.3	4198.7	4253.6	4449.1	4771.6
25°	6445.6	6291.2	6078.5	5574.3	4977.4	4538.3	4346.2	4373.6	4524.6	4840.2
27.5°	7093.9	7032.1	6699.4	6291.2	5481.6	4751.0	4425.1	4476.6	4661.8	4836.7
30°	7718.2	7718.2	7515.8	6905.2	6013.3	5107.7	4593.2	4569.2	4596.6	4829.9
32.5°	8448.9	8349.4	8057.8	7653.0	6682.2	5433.6	4727.0	4733.8	4733.8	4956.8
35°	8833.1	8994.3	8798.7	8140.1	7193.4	5975.6	5049.4	4998.0	4960.2	5097.4
37.5°	9395.6	9491.7	9285.9	8898.2	7828.0	6414.7	5334.1	5293.0	5073.4	5207.2
40°	9735.2	9718.1	9711.2	9532.8	8668.4	6932.7	5752.6	5646.3	5351.3	5594.8
42.5°	9927.3	9893.0	10314.9	10205.2	9460.8	7694.2	6277.5	6219.2	5893.3	6284.3
45°	10143.4	10397.3	10743.7	11052.5	10383.6	8764.4	7165.9	7083.6	6792.0	7289.4
47.5°	10332.1	10644.3	11086.8	11416.1	11217.1	9927.3	8263.6	8284.2	8092.1	8603.2
50°	10647.7	10678.6	11278.9	11944.3	12098.7	11001.0	9738.7	9704.3	9618.6	10335.5
52.5°	10551.6	10644.3	11402.4	12253.1	12506.9	12136.4	11323.5	11426.4	11313.2	12215.3
55°	8987.4	9265.3	11326.9	12578.9	13474.3	13419.4	13361.1	13292.5	13285.6	14328.4
57.5°	8277.3	8503.7	9978.8	12939.1	14510.2	14915.0	15292.3	15367.8	15364.4	16623.3
60°	7810.8	8044.1	9433.4	12743.6	15391.8	16873.7	17597.5	17607.8	17587.2	19076.0
62.5°	6898.4	7124.8	8490.0	11673.3	15635.4	18681.5	20293.7	20427.5	19484.2	21189.0
65°	5800.7	5985.9	7189.9	10037.1	14987.0	19830.6	22321.0	22163.2	21082.7	22396.5
67°	4744.1	4867.6	6040.8	8616.9	13292.5	19278.3	22907.6	23038.0	21820.2	22448.0
67.5°	4442.3	4555.5	5663.4	8133.3	12647.6	18859.8	22928.2	22907.6	21833.9	22458.2
70°	3083.8	3131.9	3859.1	5594.8	9316.7	15933.8	21254.2	21302.2	20918.0	21240.5
72.5°	2044.5	2116.5	2579.6	3526.4	5491.9	11594.5	17765.6	18280.1	18036.6	17415.7
75°	1317.2	1358.4	1687.7	2099.4	2703.1	6603.3	13124.4	13467.4	12908.3	10771.2
77.5°	737.5	782.1	1018.8	1276.1	1317.2	2747.7	7371.7	7797.1	6606.8	4576.0
80°	459.7	518.0	768.4	758.1	627.7	1008.5	3039.3	3255.4	2641.3	1574.5
82.5°	346.5	391.1	593.4	531.7	353.3	449.4	1138.9	1221.2	967.3	607.2
85°	236.7	298.4	428.8	329.3	185.2	216.1	452.8	487.1	442.5	295.0
87.5°	85.8	126.9	223.0	164.7	82.3	65.2	147.5	164.7	157.8	133.8
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°
4552.0	0°	4552.0	4552.0	4552.0	4552.0	4552.0	4552.0	4552.0	4552.0	4552.0	4552.0
4593.2	2.5°	4658.4	4706.4	4730.4	4871.0	4929.4	4919.1	4932.8	4953.4	4974.0	5001.4
4651.5	5°	4696.1	4843.6	4922.5	5087.2	5196.9	5148.9	5210.6	5193.5	5169.5	5166.0
4757.8	7.5°	4819.6	5008.3	5244.9	5289.5	5337.6	5217.5	5114.6	4974.0	4939.6	4819.6
4847.0	10°	5039.1	5193.5	5481.6	5498.8	5286.1	4977.4	4747.6	4456.0	4452.5	4277.6
4984.2	12.5°	5248.4	5423.3	5656.6	5557.1	5049.4	4627.5	4253.6	3934.6	3800.8	3711.6
5066.6	15°	5378.7	5666.9	5790.4	5361.6	4634.3	4064.9	3581.2	3238.2	3101.0	3035.8
5169.5	17.5°	5498.8	5900.1	5845.2	5018.5	4123.2	3485.2	2908.9	2610.5	2572.7	2524.7
5334.1	20°	5663.4	5985.9	5649.7	4572.6	3543.5	2737.4	2370.3	2226.3	2260.6	2281.2
5351.3	22.5°	5817.8	6030.5	5402.7	4085.5	2799.1	2168.0	1986.1	2017.0	2068.5	2137.1
5392.4	25°	5886.4	6102.5	5070.0	3413.2	2130.2	1824.9	1783.8	1835.2	1921.0	1924.4
5450.8	27.5°	5931.0	6051.1	4668.7	2758.0	1684.3	1595.1	1656.8	1694.6	1704.9	1746.0
5574.3	30°	6009.9	5944.7	4161.0	1972.4	1413.3	1416.7	1495.6	1495.6	1495.6	1526.5
5697.7	32.5°	6147.1	5872.7	3567.5	1440.7	1217.8	1327.5	1306.9	1300.1	1286.4	1248.6
5855.5	35°	6232.9	5677.2	2816.3	1066.8	1094.3	1217.8	1210.9	1104.6	926.2	837.0
6256.9	37.5°	6411.3	5577.7	2071.9	823.3	1022.2	1162.9	1125.1	867.9	672.3	586.6
6754.3	40°	6795.4	5512.5	1433.9	720.4	974.2	1135.4	1005.1	740.9	514.5	363.6
7522.7	42.5°	7265.4	5515.9	974.2	679.2	977.6	1193.7	967.3	634.6	363.6	291.6
8548.3	45°	7896.6	5464.5	668.9	679.2	1039.4	1289.8	991.4	576.3	353.3	370.5
9834.7	47.5°	8575.8	5509.1	497.4	617.5	1049.7	1293.2	905.6	566.0	339.6	428.8
11234.3	50°	9368.2	5553.7	411.6	569.4	1053.1	1252.1	833.6	552.3	353.3	452.8
12839.7	52.5°	10184.6	5694.3	349.9	538.6	1094.3	1234.9	833.6	572.9	353.3	394.5
14884.1	55°	11402.4	6054.5	504.3	672.3	1245.2	1348.1	1025.7	802.7	494.0	507.7
16842.8	57.5°	12747.0	6425.0	562.6	706.6	1279.5	1214.3	1104.6	885.0	521.4	524.8
18365.9	60°	13632.1	6438.7	559.1	689.5	1197.2	1049.7	1080.5	933.0	531.7	449.4
19309.2	62.5°	13985.4	6020.2	583.2	689.5	1114.9	981.1	1108.0	1005.1	548.8	562.6
19576.8	65°	13584.0	5155.8	562.6	617.5	981.1	878.2	1114.9	1018.8	600.3	566.0
19096.5	67°	12956.3	4442.3	572.9	586.6	912.5	833.6	1173.2	1070.3	696.4	679.2
18846.1	67.5°	12777.9	4253.6	569.4	569.4	888.5	819.8	1186.9	1070.3	710.1	703.2
16633.6	70°	11261.7	3447.5	583.2	562.6	785.5	778.7	1262.4	1128.6	816.4	823.3
12218.8	72.5°	8572.3	2613.9	579.7	562.6	682.6	744.4	1272.6	1166.3	888.5	823.3
6843.5	75°	4871.0	1564.2	511.1	490.5	538.6	648.3	1190.3	1111.4	864.4	737.5
2734.0	77.5°	2013.6	806.1	470.0	442.5	445.9	528.3	991.4	1036.0	823.3	627.7
912.5	80°	751.2	483.7	377.3	353.3	343.0	387.6	706.6	826.7	703.2	514.5
401.3	82.5°	391.1	301.9	257.3	257.3	233.3	247.0	380.8	548.8	531.7	353.3
161.2	85°	199.0	171.5	147.5	144.1	130.4	116.6	192.1	325.9	305.3	195.5
72.0	87.5°	106.3	96.0	61.7	58.3	48.0	30.9	34.3	65.2	106.3	85.8
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>
4552.0
5028.8
5196.9
4860.8
4270.7
3691.0
3022.1
2548.7
2257.1
2099.4
1958.7
1783.8
1560.8
1228.1
878.2
583.2
353.3
284.7
377.3
476.8
524.8
404.8
535.1
507.7
463.1
569.4
555.7
668.9
689.5
761.5
730.7
658.6
593.4
470.0
277.9
161.2
61.7
0.0

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