

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: P477948

Luminaire Tested: **IFLD-L-SA7B-830-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477948
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-830-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

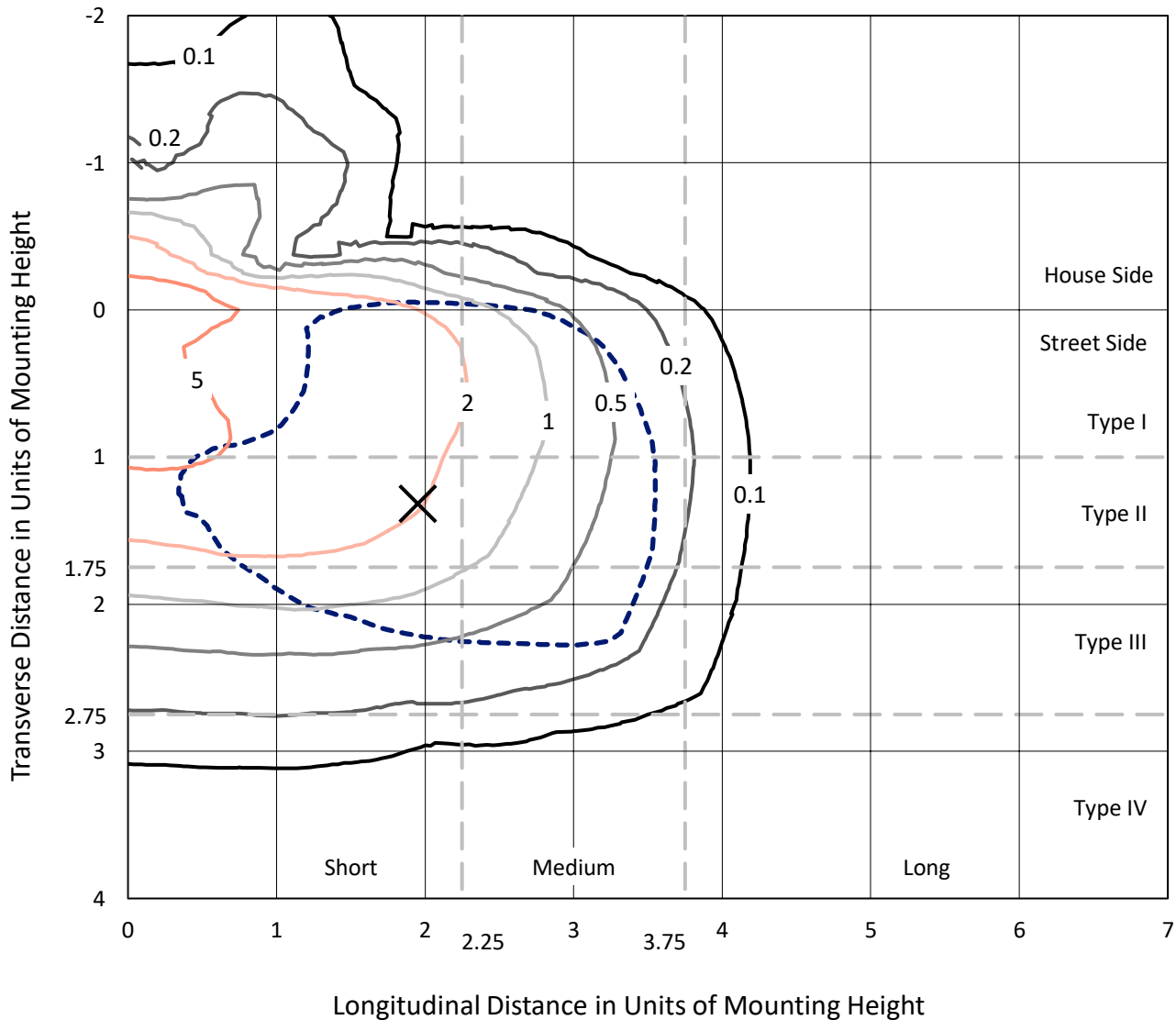
Lumens per Lamp: N/A
Luminaire Lumens: 27796.4 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 281
Input Voltage (V): 120
Input Current (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

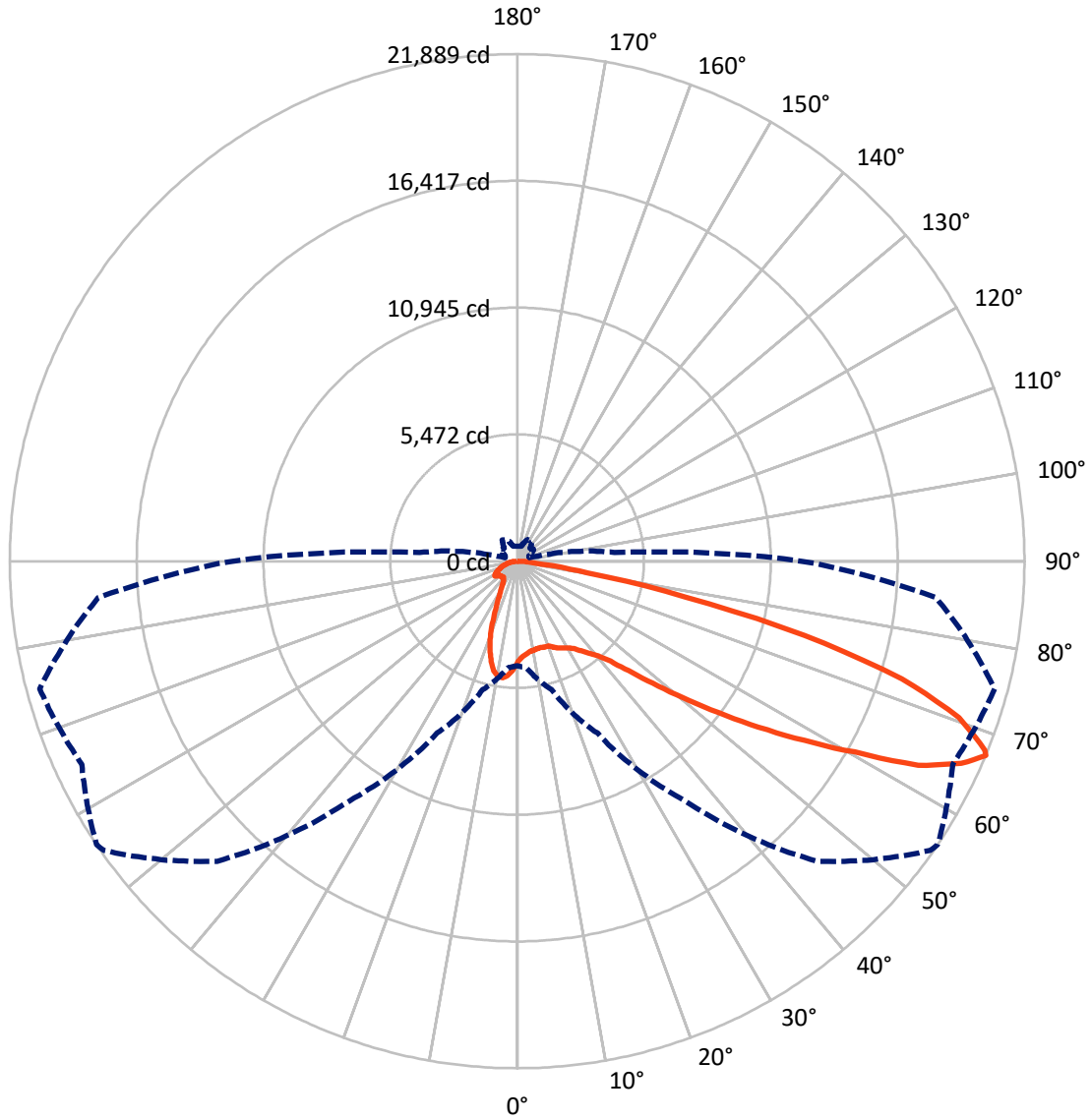
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type III - Short - N/A

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CATALOG NUMBER: IFLD-L-SA7B-830-U-T3R

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	4400.5	0.0	4400.5
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	23396.0	0.0	23396.0
	% Fixture	84.2	0.0	84.2
Total	Lumens	27796.4	0.0	27796.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	416.7	1.5
10°-20°	1136.7	4.1
20°-30°	1782.7	6.4
30°-40°	2544.8	9.2
40°-50°	3840.9	13.8
50°-60°	6114.0	22.0
60°-70°	7816.3	28.1
70°-80°	3811.0	13.7
80°-90°	333.4	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°	27796.4	100.0
0°-180°	27796.4	100.0

Coefficient of Utilization

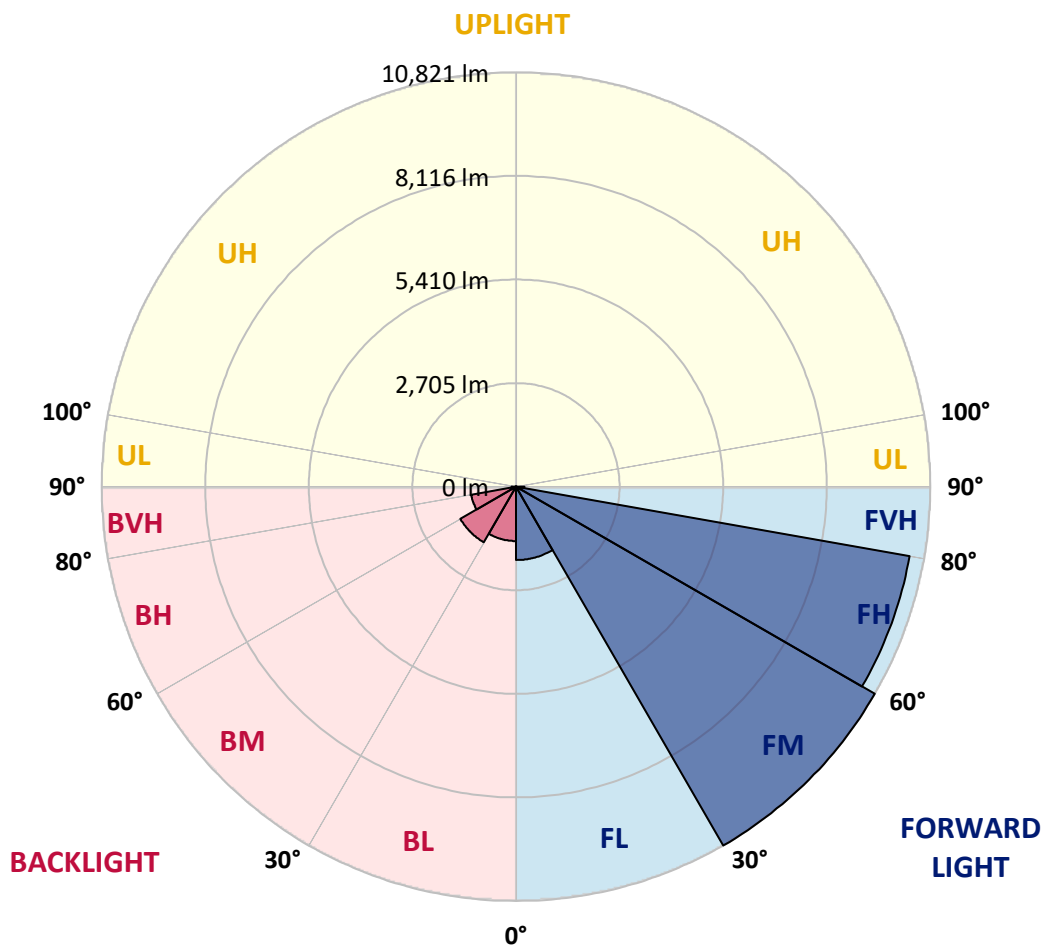


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1915.5	6.9			
FM (30°-60°)	10820.9	38.9			
FH (60°-80°)	10438.2	37.6			G4/12000
FVH (80°-90°)	221.4	0.8			G2/225
BL (0°-30°)	1420.6	5.1	B3/2500		
BM (30°-60°)	1678.8	6.0	B2/2500		
BH (60°-80°)	1189.1	4.3	B3/2500		G3/2500
BVH (80°-90°)	112.0	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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 CATALOG NUMBER: IFLD-L-SA7B-830-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	4325.0	4325.0	4325.0	4325.0	4325.0	4325.0	4325.0	4325.0	4325.0	4325.0
2.5°	3973.0	3956.8	3976.3	3956.8	4044.8	4096.9	4113.2	4136.0	4217.5	4295.7
5°	3806.8	3735.1	3813.3	3839.4	3845.9	3933.9	4025.2	4041.5	4083.9	4211.0
7.5°	3529.8	3611.3	3581.9	3660.2	3741.6	3829.6	3979.6	3937.2	4093.6	4214.2
10°	3471.1	3477.6	3510.2	3539.6	3611.3	3725.3	3933.9	3907.9	4067.6	4325.0
12.5°	3529.8	3529.8	3520.0	3497.2	3578.7	3689.5	3855.7	3868.7	4119.7	4357.6
15°	3735.1	3774.2	3669.9	3686.2	3653.6	3689.5	3836.2	3865.5	4139.3	4383.7
17.5°	4237.0	4224.0	4100.2	3927.4	3784.0	3761.2	3862.2	3894.8	4119.7	4458.7
20°	4725.9	4699.9	4484.8	4305.5	4021.9	3888.3	3904.6	3907.9	4152.3	4507.6
22.5°	5270.2	5338.7	5104.0	4739.0	4387.0	4054.5	3989.3	4041.5	4227.3	4533.6
25°	6124.2	5977.5	5775.4	5296.3	4729.2	4312.0	4129.5	4155.6	4299.0	4598.8
27.5°	6740.2	6681.5	6365.3	5977.5	5208.3	4514.1	4204.5	4253.3	4429.3	4595.6
30°	7333.4	7333.4	7141.1	6560.9	5713.5	4853.0	4364.2	4341.3	4367.4	4589.0
32.5°	8027.6	7933.1	7656.0	7271.4	6349.1	5162.7	4491.3	4497.8	4497.8	4709.6
35°	8392.6	8545.8	8360.0	7734.2	6834.7	5677.6	4797.6	4748.8	4712.9	4843.3
37.5°	8927.1	9018.4	8822.8	8454.5	7437.6	6094.8	5068.2	5029.0	4820.5	4947.6
40°	9249.8	9233.5	9227.0	9057.5	8236.2	6587.0	5465.8	5364.8	5084.5	5315.9
42.5°	9432.3	9399.7	9800.6	9696.3	8989.1	7310.5	5964.5	5909.1	5599.4	5971.0
45°	9637.7	9878.8	10208.0	10501.4	9865.8	8327.4	6808.6	6730.4	6453.3	6925.9
47.5°	9816.9	10113.5	10534.0	10846.8	10657.8	9432.3	7851.6	7871.1	7688.6	8174.2
50°	10116.8	10146.1	10716.5	11348.8	11495.4	10452.5	9253.1	9220.5	9139.0	9820.2
52.5°	10025.5	10113.5	10833.8	11642.1	11883.3	11531.3	10758.8	10856.6	10749.1	11606.2
55°	8539.3	8803.3	10762.1	11951.7	12802.4	12750.3	12694.8	12629.7	12623.1	13614.0
57.5°	7864.6	8079.7	9481.2	12294.0	13786.7	14171.3	14529.8	14601.5	14598.3	15794.4
60°	7421.4	7643.0	8963.0	12108.2	14624.3	16032.3	16720.0	16729.8	16710.3	18124.8
62.5°	6554.4	6769.5	8066.7	11091.3	14855.7	17750.0	19281.8	19408.9	18512.6	20132.5
65°	5511.4	5687.4	6831.4	9536.6	14239.7	18841.8	21208.1	21058.1	20031.5	21279.8
67°	4507.6	4624.9	5739.6	8187.3	12629.7	18317.1	21765.4	21889.2	20732.2	21328.6
67.5°	4220.8	4328.3	5381.0	7727.7	12016.9	17919.4	21784.9	21765.4	20745.2	21338.4
70°	2930.1	2975.7	3666.7	5315.9	8852.2	15139.3	20194.4	20240.0	19875.0	20181.4
72.5°	1942.5	2011.0	2451.0	3350.5	5218.1	11016.3	16879.7	17368.6	17137.2	16547.3
75°	1251.6	1290.7	1603.6	1994.7	2568.3	6274.1	12470.0	12795.9	12264.6	10234.1
77.5°	700.7	743.1	968.0	1212.4	1251.6	2610.7	7004.2	7408.3	6277.3	4347.9
80°	436.7	492.1	730.1	720.3	596.4	958.2	2887.7	3093.0	2509.6	1496.0
82.5°	329.2	371.6	563.9	505.2	335.7	427.0	1082.1	1160.3	919.1	576.9
85°	224.9	283.6	407.4	312.9	176.0	205.3	430.2	462.8	420.4	280.3
87.5°	81.5	120.6	211.9	156.4	78.2	61.9	140.1	156.4	149.9	127.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P477948
 CATALOG NUMBER: IFLD-L-SA7B-830-U-T3R

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4325.0	0°	4325.0	4325.0	4325.0	4325.0	4325.0	4325.0	4325.0	4325.0	4325.0	4325.0
4364.2	2.5°	4426.1	4471.7	4494.5	4628.2	4683.6	4673.8	4686.8	4706.4	4725.9	4752.0
4419.6	5°	4461.9	4602.1	4677.0	4833.5	4937.8	4892.2	4950.8	4934.5	4911.7	4908.5
4520.6	7.5°	4579.3	4758.5	4983.4	5025.8	5071.4	4957.3	4859.6	4725.9	4693.3	4579.3
4605.3	10°	4787.9	4934.5	5208.3	5224.6	5022.5	4729.2	4510.8	4233.8	4230.5	4064.3
4735.7	12.5°	4986.7	5152.9	5374.5	5280.0	4797.6	4396.8	4041.5	3738.4	3611.3	3526.5
4813.9	15°	5110.5	5384.3	5501.6	5094.2	4403.3	3862.2	3402.7	3076.7	2946.4	2884.5
4911.7	17.5°	5224.6	5605.9	5553.8	4768.3	3917.6	3311.4	2763.9	2480.3	2444.5	2398.8
5068.2	20°	5381.0	5687.4	5368.0	4344.6	3366.8	2600.9	2252.2	2115.3	2147.9	2167.4
5084.5	22.5°	5527.7	5729.8	5133.3	3881.8	2659.6	2059.9	1887.1	1916.4	1965.3	2030.5
5123.6	25°	5592.9	5798.2	4817.2	3243.0	2024.0	1733.9	1694.8	1743.7	1825.2	1828.4
5179.0	27.5°	5635.3	5749.3	4435.9	2620.5	1600.3	1515.6	1574.2	1610.1	1619.9	1659.0
5296.3	30°	5710.2	5648.3	3953.5	1874.1	1342.8	1346.1	1421.0	1421.0	1421.0	1450.4
5413.6	32.5°	5840.6	5579.9	3389.6	1368.9	1157.0	1261.3	1241.8	1235.3	1222.2	1186.4
5563.6	35°	5922.1	5394.1	2675.9	1013.6	1039.7	1157.0	1150.5	1049.5	880.0	795.3
5944.9	37.5°	6091.6	5299.6	1968.6	782.2	971.3	1104.9	1069.0	824.6	638.8	557.3
6417.5	40°	6456.6	5237.6	1362.4	684.4	925.6	1078.8	955.0	704.0	488.9	345.5
7147.6	42.5°	6903.1	5240.9	925.6	645.3	928.9	1134.2	919.1	603.0	345.5	277.0
8122.1	45°	7502.8	5192.0	635.6	645.3	987.6	1225.5	941.9	547.6	335.7	352.0
9344.3	47.5°	8148.2	5234.4	472.6	586.7	997.3	1228.7	860.4	537.8	322.7	407.4
10674.1	50°	8901.1	5276.8	391.1	541.0	1000.6	1189.6	792.0	524.7	335.7	430.2
12199.4	52.5°	9676.8	5410.4	332.4	511.7	1039.7	1173.3	792.0	544.3	335.7	374.8
14142.0	55°	10833.8	5752.6	479.1	638.8	1183.1	1280.9	974.5	762.7	469.3	482.4
16003.0	57.5°	12111.4	6104.6	534.5	671.4	1215.7	1153.8	1049.5	840.9	495.4	498.7
17450.1	60°	12952.3	6117.6	531.3	655.1	1137.5	997.3	1026.7	886.5	505.2	427.0
18346.4	62.5°	13288.0	5720.0	554.1	655.1	1059.3	932.2	1052.7	955.0	521.5	534.5
18600.6	65°	12906.7	4898.7	534.5	586.7	932.2	834.4	1059.3	968.0	570.4	537.8
18144.3	67°	12310.3	4220.8	544.3	557.3	867.0	792.0	1114.7	1016.9	661.6	645.3
17906.4	67.5°	12140.8	4041.5	541.0	541.0	844.2	779.0	1127.7	1016.9	674.7	668.1
15804.2	70°	10700.2	3275.6	554.1	534.5	746.4	739.9	1199.4	1072.3	775.7	782.2
11609.5	72.5°	8144.9	2483.6	550.8	534.5	648.6	707.3	1209.2	1108.2	844.2	782.2
6502.2	75°	4628.2	1486.2	485.6	466.1	511.7	616.0	1131.0	1056.0	821.3	700.7
2597.6	77.5°	1913.2	765.9	446.5	420.4	423.7	501.9	941.9	984.3	782.2	596.4
867.0	80°	713.8	459.6	358.5	335.7	325.9	368.3	671.4	785.5	668.1	488.9
381.3	82.5°	371.6	286.8	244.4	244.4	221.6	234.7	361.8	521.5	505.2	335.7
153.2	85°	189.0	163.0	140.1	136.9	123.9	110.8	182.5	309.6	290.1	185.8
68.4	87.5°	101.0	91.3	58.7	55.4	45.6	29.3	32.6	61.9	101.0	81.5
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>
4325.0
4778.1
4937.8
4618.4
4057.8
3507.0
2871.4
2421.6
2144.6
1994.7
1861.0
1694.8
1483.0
1166.8
834.4
554.1
335.7
270.5
358.5
453.0
498.7
384.6
508.4
482.4
440.0
541.0
528.0
635.6
655.1
723.6
694.2
625.8
563.9
446.5
264.0
153.2
58.7
0.0

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