

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: P477820

Luminaire Tested: **IFLD-S-SA6A-750-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477820
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-750-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

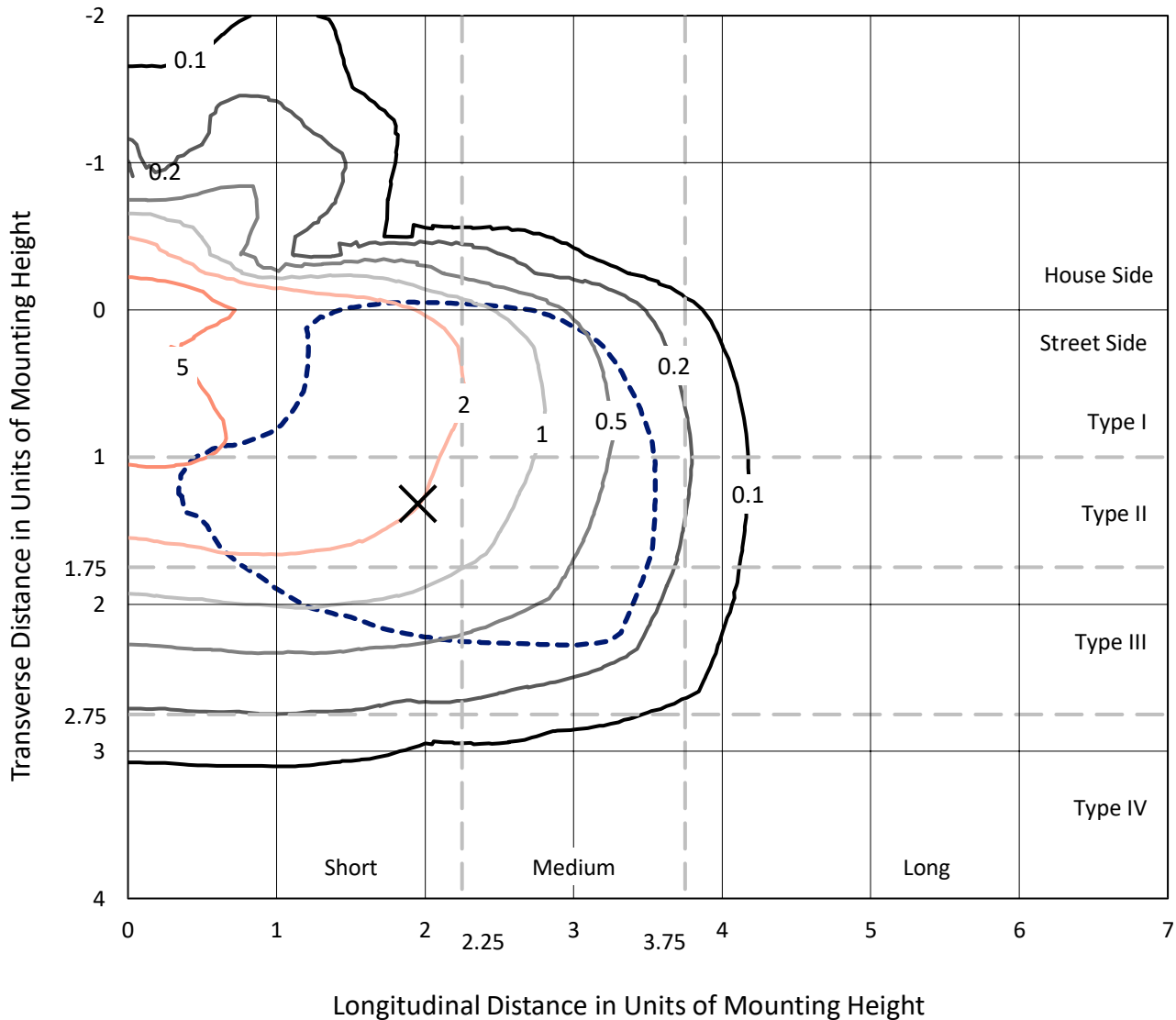
Lumens per Lamp: N/A
Luminaire Lumens: 27119.3 lumens
Efficiency: N/A
Efficacy: 143.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 189.6
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

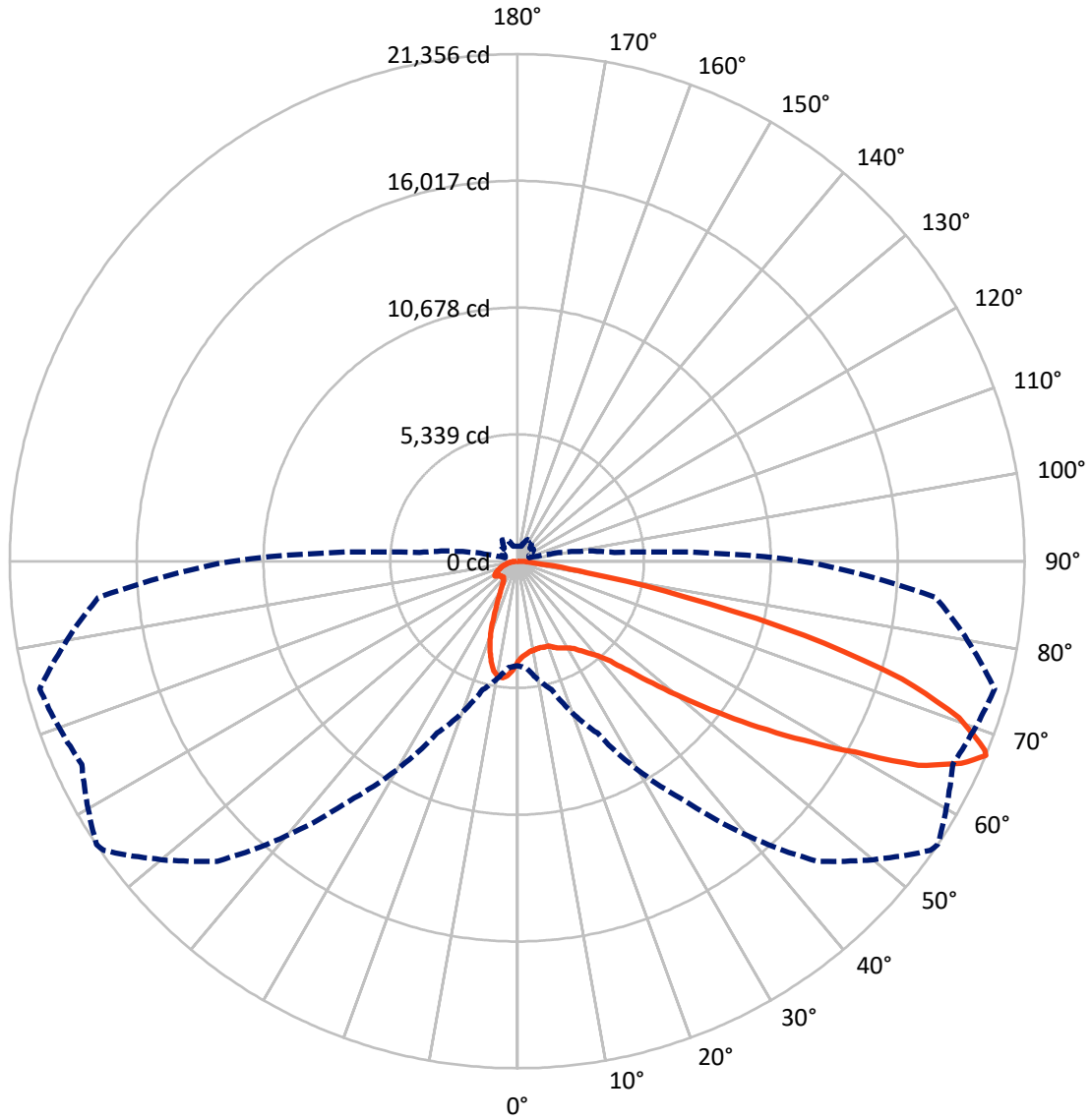
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type III - Short - N/A

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CATALOG NUMBER: IFLD-S-SA6A-750-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	4293.3	0.0	4293.3
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	22826.0	0.0	22826.0
	% Fixture	84.2	0.0	84.2
Total	Lumens	27119.3	0.0	27119.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	406.5	1.5
10°-20°	1109.0	4.1
20°-30°	1739.3	6.4
30°-40°	2482.8	9.2
40°-50°	3747.3	13.8
50°-60°	5965.1	22.0
60°-70°	7625.9	28.1
70°-80°	3718.1	13.7
80°-90°	325.3	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°	27119.3	100.0
0°-180°	27119.3	100.0

Coefficient of Utilization

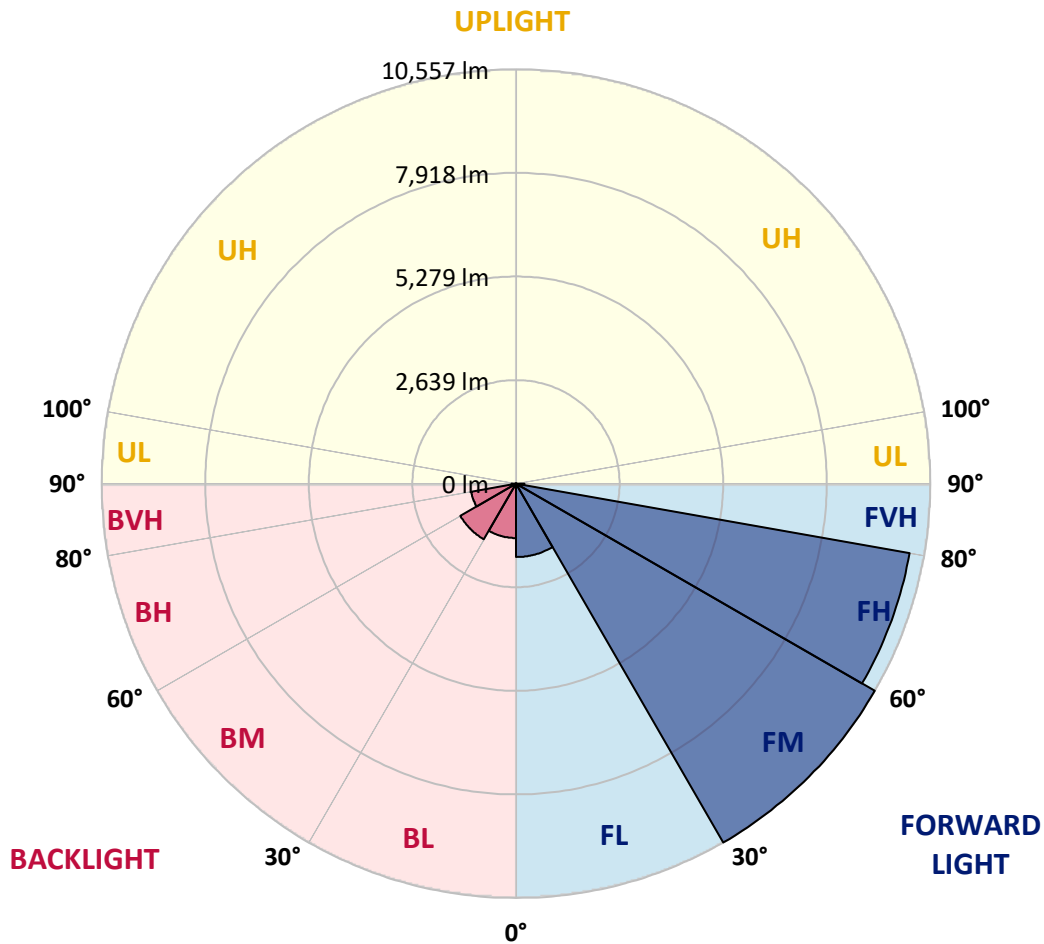


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1868.8	6.9			
FM (30°-60°)	10557.3	38.9			
FH (60°-80°)	10183.9	37.6			G4/12000
FVH (80°-90°)	216.0	0.8			G2/225
BL (0°-30°)	1386.0	5.1	B3/2500		
BM (30°-60°)	1637.9	6.0	B2/2500		
BH (60°-80°)	1160.1	4.3	B3/2500		G3/2500
BVH (80°-90°)	109.2	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°	4219.7	4219.7	4219.7	4219.7	4219.7	4219.7	4219.7	4219.7	4219.7	4219.7
2.5°	3876.3	3860.4	3879.4	3860.4	3946.2	3997.1	4013.0	4035.3	4114.7	4191.1
5°	3714.1	3644.1	3720.4	3745.9	3752.2	3838.1	3927.1	3943.0	3984.4	4108.4
7.5°	3443.8	3523.3	3494.7	3571.0	3650.5	3736.3	3882.6	3841.3	3993.9	4111.6
10°	3386.6	3392.9	3424.7	3453.3	3523.3	3634.6	3838.1	3812.7	3968.5	4219.7
12.5°	3443.8	3443.8	3434.3	3412.0	3491.5	3599.6	3761.8	3774.5	4019.4	4251.5
15°	3644.1	3682.3	3580.5	3596.4	3564.6	3599.6	3742.7	3771.3	4038.4	4276.9
17.5°	4133.8	4121.1	4000.3	3831.7	3691.8	3669.6	3768.1	3799.9	4019.4	4350.1
20°	4610.8	4585.4	4375.5	4200.6	3924.0	3793.6	3809.5	3812.7	4051.2	4397.8
22.5°	5141.8	5208.6	4979.7	4623.5	4280.1	3955.8	3892.2	3943.0	4124.3	4423.2
25°	5975.0	5831.9	5634.7	5167.3	4614.0	4207.0	4028.9	4054.3	4194.2	4486.8
27.5°	6576.0	6518.7	6210.3	5831.9	5081.4	4404.1	4102.0	4149.7	4321.4	4483.6
30°	7154.7	7154.7	6967.1	6401.1	5574.3	4734.8	4257.8	4235.6	4261.0	4477.3
32.5°	7832.0	7739.8	7469.5	7094.3	6194.4	5036.9	4381.9	4388.2	4388.2	4594.9
35°	8188.2	8337.6	8156.4	7545.8	6668.2	5539.3	4680.8	4633.1	4598.1	4725.3
37.5°	8709.7	8798.7	8607.9	8248.6	7256.5	5946.4	4944.7	4906.5	4703.0	4827.0
40°	9024.5	9008.6	9002.2	8836.9	8035.5	6426.5	5332.6	5234.1	4960.6	5186.4
42.5°	9202.5	9170.7	9561.9	9460.1	8770.1	7132.4	5819.2	5765.1	5463.0	5825.5
45°	9402.9	9638.2	9959.3	10245.5	9625.5	8124.6	6642.7	6566.4	6296.1	6757.2
47.5°	9577.8	9867.1	10277.3	10582.6	10398.2	9202.5	7660.3	7679.4	7501.3	7975.1
50°	9870.3	9898.9	10455.4	11072.3	11215.4	10197.8	9027.6	8995.8	8916.4	9580.9
52.5°	9781.3	9867.1	10569.9	11358.5	11593.8	11250.4	10496.7	10592.1	10487.2	11323.5
55°	8331.3	8588.8	10499.9	11660.6	12490.5	12439.6	12385.6	12322.0	12315.6	13282.3
57.5°	7673.0	7882.9	9250.2	11994.5	13450.8	13826.1	14175.9	14245.8	14242.6	15409.6
60°	7240.6	7456.8	8744.6	11813.2	14268.1	15641.8	16312.7	16322.3	16303.2	17683.2
62.5°	6394.7	6604.6	7870.2	10821.1	14493.8	17317.6	18812.1	18936.1	18061.7	19642.0
65°	5377.2	5548.9	6665.0	9304.3	13892.8	18382.8	20691.4	20545.1	19543.5	20761.4
67°	4397.8	4512.2	5599.7	7987.8	12322.0	17870.9	21235.2	21356.0	20227.1	20809.1
67.5°	4117.9	4222.9	5250.0	7539.5	11724.2	17482.9	21254.2	21235.2	20239.9	20818.6
70°	2858.7	2903.2	3577.4	5186.4	8636.5	14770.5	19702.5	19747.0	19390.8	19689.7
72.5°	1895.2	1962.0	2391.3	3268.9	5091.0	10748.0	16468.5	16945.5	16719.7	16144.2
75°	1221.1	1259.2	1564.5	1946.1	2505.7	6121.2	12166.2	12484.2	11965.8	9984.8
77.5°	683.7	725.0	944.4	1182.9	1221.1	2547.1	6833.5	7227.8	6124.4	4241.9
80°	426.1	480.2	712.3	702.8	581.9	934.9	2817.4	3017.7	2448.5	1459.6
82.5°	321.2	362.5	550.1	492.9	327.5	416.6	1055.7	1132.0	896.7	562.8
85°	219.4	276.6	397.5	305.3	171.7	200.3	419.7	451.5	410.2	273.5
87.5°	79.5	117.7	206.7	152.6	76.3	60.4	136.7	152.6	146.3	124.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P477820
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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4219.7	0°	4219.7	4219.7	4219.7	4219.7	4219.7	4219.7	4219.7	4219.7	4219.7	4219.7
4257.8	2.5°	4318.3	4362.8	4385.0	4515.4	4569.5	4559.9	4572.7	4591.7	4610.8	4636.2
4311.9	5°	4353.2	4490.0	4563.1	4715.7	4817.5	4773.0	4830.2	4814.3	4792.1	4788.9
4410.5	7.5°	4467.7	4642.6	4862.0	4903.4	4947.9	4836.6	4741.2	4610.8	4579.0	4467.7
4493.2	10°	4671.2	4814.3	5081.4	5097.3	4900.2	4614.0	4400.9	4130.6	4127.5	3965.3
4620.3	12.5°	4865.2	5027.4	5243.6	5151.4	4680.8	4289.6	3943.0	3647.3	3523.3	3440.6
4696.7	15°	4986.0	5253.1	5367.6	4970.1	4296.0	3768.1	3319.8	3001.8	2874.6	2814.2
4792.1	17.5°	5097.3	5469.4	5418.5	4652.1	3822.2	3230.7	2696.5	2419.9	2384.9	2340.4
4944.7	20°	5250.0	5548.9	5237.2	4238.8	3284.8	2537.5	2197.3	2063.7	2095.5	2114.6
4960.6	22.5°	5393.1	5590.2	5008.3	3787.2	2594.8	2009.7	1841.1	1869.8	1917.5	1981.1
4998.8	25°	5456.7	5657.0	4699.8	3164.0	1974.7	1691.7	1653.5	1701.2	1780.7	1783.9
5052.8	27.5°	5498.0	5609.3	4327.8	2556.6	1561.3	1478.6	1535.9	1570.9	1580.4	1618.6
5167.3	30°	5571.1	5510.7	3857.2	1828.4	1310.1	1313.3	1386.4	1386.4	1386.4	1415.0
5281.8	32.5°	5698.3	5443.9	3307.1	1335.5	1128.9	1230.6	1211.5	1205.2	1192.5	1157.5
5428.0	35°	5777.8	5262.7	2610.7	988.9	1014.4	1128.9	1122.5	1023.9	858.6	775.9
5800.1	37.5°	5943.2	5170.5	1920.6	763.2	947.6	1078.0	1043.0	804.5	623.3	543.8
6261.2	40°	6299.3	5110.0	1329.2	667.8	903.1	1052.5	931.7	686.9	477.0	337.1
6973.5	42.5°	6735.0	5113.2	903.1	629.6	906.3	1106.6	896.7	588.3	337.1	270.3
7924.2	45°	7320.1	5065.5	620.1	629.6	963.5	1195.6	919.0	534.2	327.5	343.4
9116.7	47.5°	7949.7	5106.9	461.1	572.4	973.0	1198.8	839.5	524.7	314.8	397.5
10414.1	50°	8684.2	5148.2	381.6	527.9	976.2	1160.7	772.7	512.0	327.5	419.7
11902.2	52.5°	9441.0	5278.6	324.3	499.2	1014.4	1144.8	772.7	531.0	327.5	365.7
13797.4	55°	10569.9	5612.5	467.4	623.3	1154.3	1249.7	950.8	744.1	457.9	470.6
15613.2	57.5°	11816.4	5955.9	521.5	655.1	1186.1	1125.7	1023.9	820.4	483.3	486.5
17025.0	60°	12636.8	5968.6	518.3	639.2	1109.8	973.0	1001.7	864.9	492.9	416.6
17899.5	62.5°	12964.3	5580.7	540.6	639.2	1033.5	909.4	1027.1	931.7	508.8	521.5
18147.5	65°	12592.3	4779.3	521.5	572.4	909.4	814.0	1033.5	944.4	556.5	524.7
17702.3	67°	12010.4	4117.9	531.0	543.8	845.8	772.7	1087.5	992.1	645.5	629.6
17470.2	67.5°	11845.0	3943.0	527.9	527.9	823.6	760.0	1100.2	992.1	658.2	651.9
15419.2	70°	10439.5	3195.8	540.6	521.5	728.2	721.8	1170.2	1046.2	756.8	763.2
11326.7	72.5°	7946.5	2423.1	537.4	521.5	632.8	690.0	1179.7	1081.2	823.6	763.2
6343.8	75°	4515.4	1450.0	473.8	454.7	499.2	601.0	1103.4	1030.3	801.3	683.7
2534.4	77.5°	1866.6	747.3	435.6	410.2	413.4	489.7	919.0	960.3	763.2	581.9
845.8	80°	696.4	448.4	349.8	327.5	318.0	359.3	655.1	766.3	651.9	477.0
372.0	82.5°	362.5	279.8	238.5	238.5	216.2	229.0	353.0	508.8	492.9	327.5
149.5	85°	184.4	159.0	136.7	133.6	120.8	108.1	178.1	302.1	283.0	181.3
66.8	87.5°	98.6	89.0	57.2	54.1	44.5	28.6	31.8	60.4	98.6	79.5
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>
4219.7
4661.7
4817.5
4505.9
3958.9
3421.5
2801.5
2362.6
2092.4
1946.1
1815.7
1653.5
1446.8
1138.4
814.0
540.6
327.5
263.9
349.8
442.0
486.5
375.2
496.1
470.6
429.3
527.9
515.1
620.1
639.2
705.9
677.3
610.5
550.1
435.6
257.6
149.5
57.2
0.0

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