

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: P477874

Luminaire Tested: **IFLD-L-SA8A-760-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477874
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-760-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (128) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

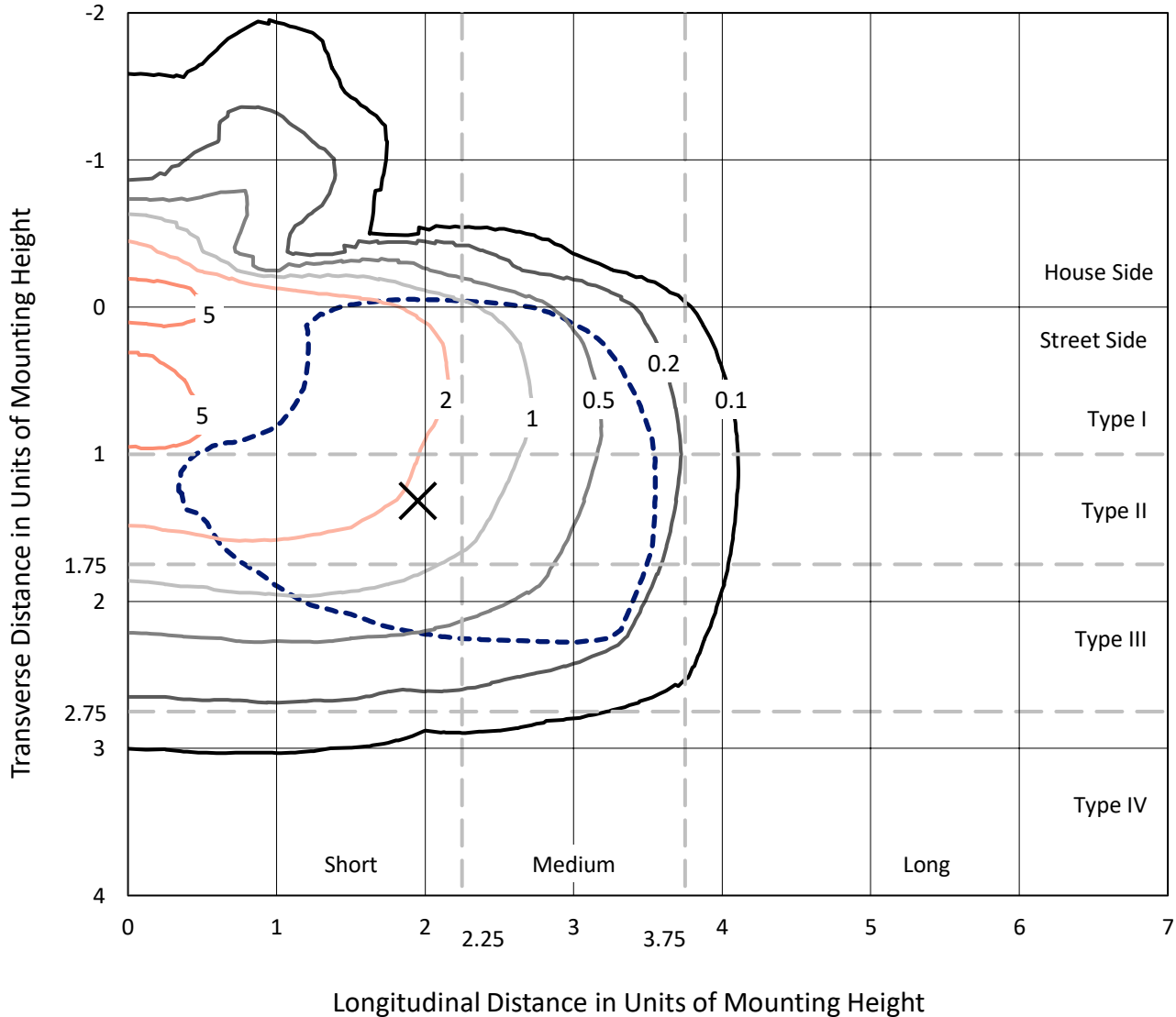
Lumens per Lamp: N/A
Luminaire Lumens: 34420.4 lumens
Efficiency: N/A
Efficacy: 138.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 247.8
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

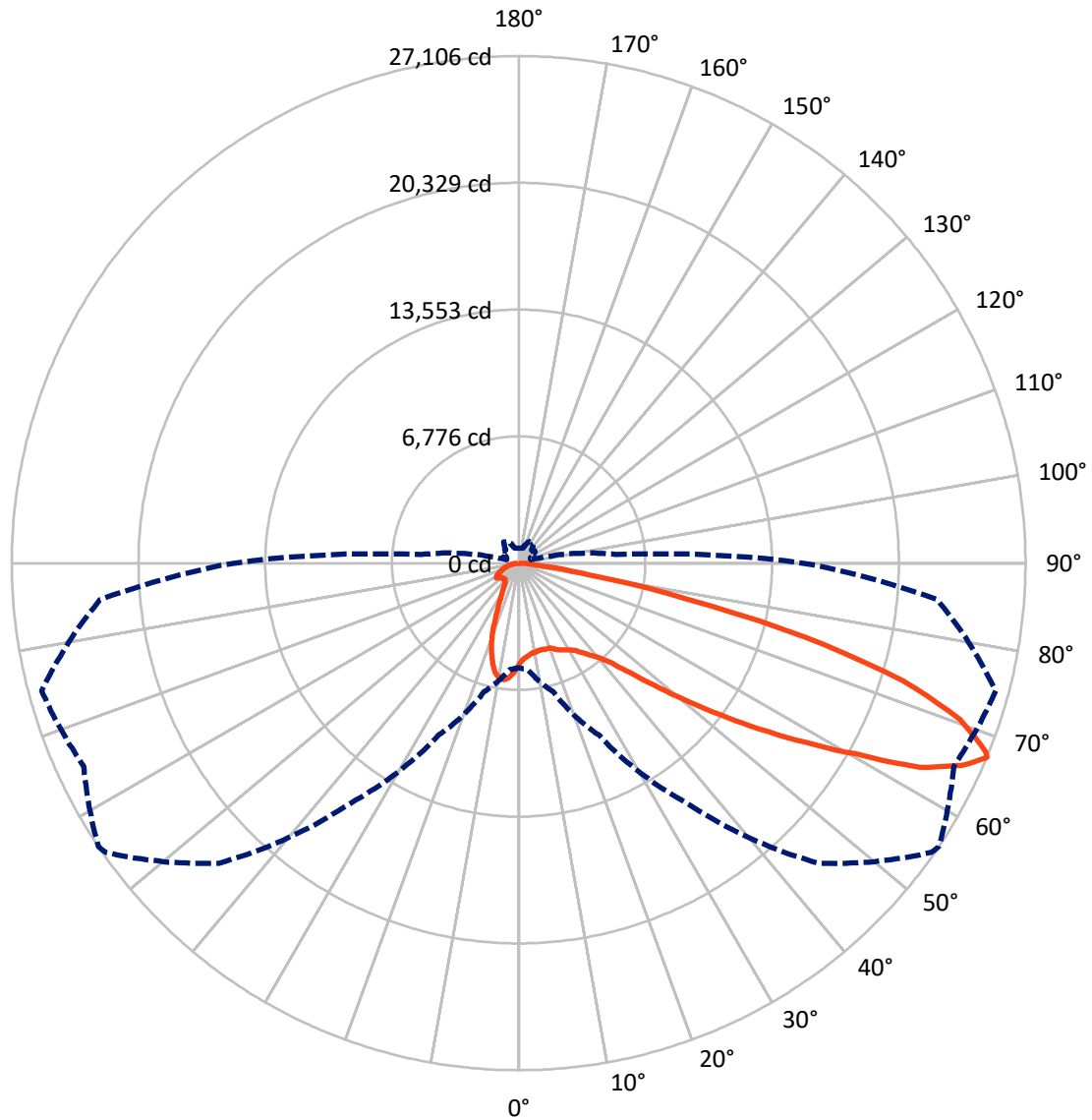
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.6 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	5449.1	0.0	5449.1
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	28971.3	0.0	28971.3
	% Fixture	84.2	0.0	84.2
Total	Lumens	34420.4	0.0	34420.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	516.0	1.5
10°-20°	1407.6	4.1
20°-30°	2207.5	6.4
30°-40°	3151.3	9.2
40°-50°	4756.2	13.8
50°-60°	7571.0	22.0
60°-70°	9678.9	28.1
70°-80°	4719.1	13.7
80°-90°	412.8	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°	34420.4	100.0
0°-180°	34420.4	100.0

Coefficient of Utilization

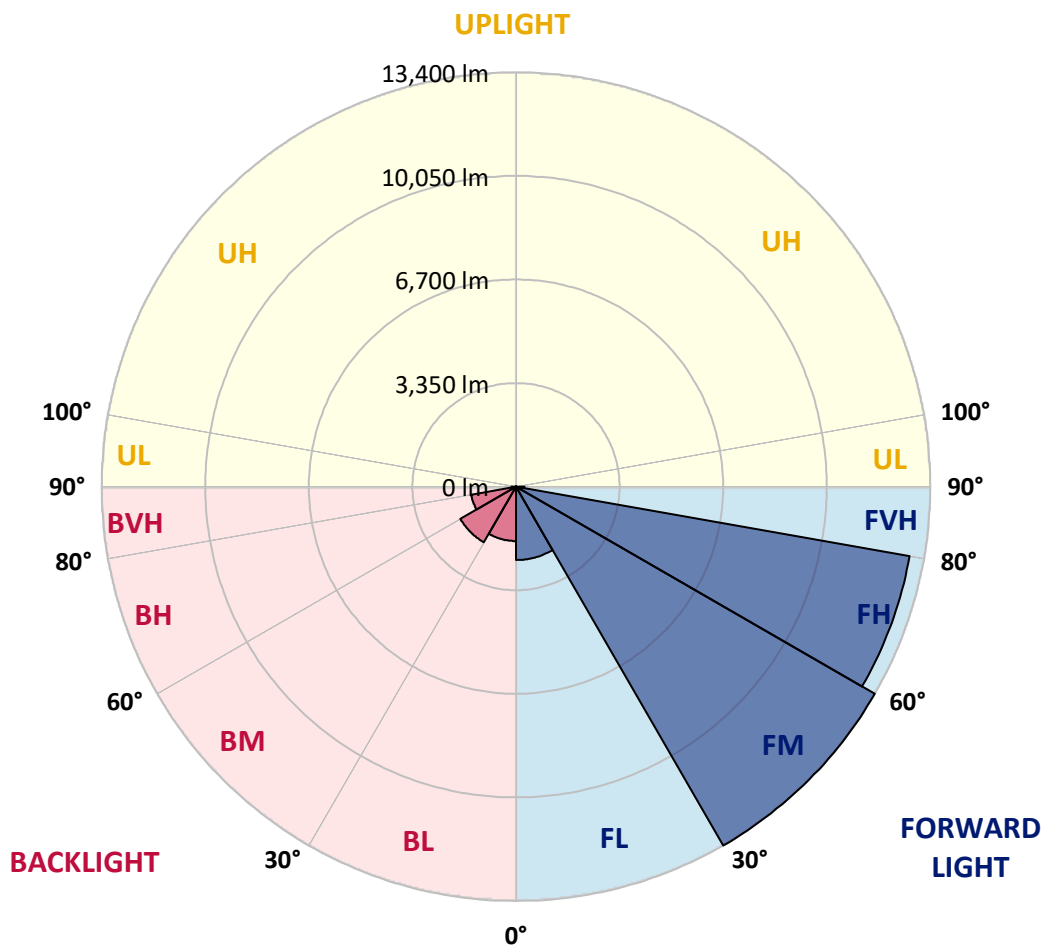


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2372.0	6.9			
FM (30°-60°)	13399.6	38.9			
FH (60°-80°)	12925.6	37.6			G5
FVH (80°-90°)	274.2	0.8			G3/500
BL (0°-30°)	1759.1	5.1	B3/2500		
BM (30°-60°)	2078.9	6.0	B2/2500		
BH (60°-80°)	1472.4	4.3	B3/2500		G3/2500
BVH (80°-90°)	138.7	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-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	5355.7	5355.7	5355.7	5355.7	5355.7	5355.7	5355.7	5355.7	5355.7	5355.7
2.5°	4919.8	4899.7	4923.9	4899.7	5008.6	5073.2	5093.4	5121.6	5222.5	5319.4
5°	4714.0	4625.2	4722.1	4754.4	4762.4	4871.4	4984.4	5004.6	5057.1	5214.5
7.5°	4370.9	4471.8	4435.5	4532.4	4633.3	4742.3	4927.9	4875.4	5069.2	5218.5
10°	4298.3	4306.4	4346.7	4383.1	4471.8	4613.1	4871.4	4839.1	5036.9	5355.7
12.5°	4370.9	4370.9	4358.8	4330.6	4431.5	4568.7	4774.5	4790.7	5101.5	5396.1
15°	4625.2	4673.6	4544.5	4564.7	4524.3	4568.7	4750.3	4786.6	5125.7	5428.4
17.5°	5246.7	5230.6	5077.2	4863.3	4685.7	4657.5	4782.6	4823.0	5101.5	5521.2
20°	5852.1	5819.9	5553.5	5331.5	4980.4	4814.9	4835.1	4839.1	5141.8	5581.7
22.5°	6526.1	6610.9	6320.3	5868.3	5432.4	5020.7	4940.0	5004.6	5234.6	5614.0
25°	7583.6	7402.0	7151.7	6558.4	5856.2	5339.6	5113.6	5145.8	5323.4	5694.7
27.5°	8346.4	8273.7	7882.2	7402.0	6449.5	5589.8	5206.4	5266.9	5484.9	5690.7
30°	9080.9	9080.9	8842.8	8124.4	7075.0	6009.5	5404.2	5375.9	5408.2	5682.6
32.5°	9940.6	9823.5	9480.5	9004.2	7862.1	6393.0	5561.6	5569.6	5569.6	5832.0
35°	10392.6	10582.3	10352.2	9577.3	8463.4	7030.6	5940.9	5880.4	5836.0	5997.4
37.5°	11054.5	11167.5	10925.3	10469.3	9210.1	7547.2	6275.9	6227.5	5969.2	6126.6
40°	11454.1	11433.9	11425.8	11215.9	10198.9	8156.7	6768.3	6643.2	6296.1	6582.7
42.5°	11680.1	11639.7	12136.1	12007.0	11131.2	9052.7	7385.8	7317.2	6933.8	7393.9
45°	11934.3	12233.0	12640.6	13003.9	12216.9	10311.9	8431.1	8334.3	7991.2	8576.4
47.5°	12156.3	12523.6	13044.2	13431.7	13197.6	11680.1	9722.6	9746.8	9520.8	10122.2
50°	12527.6	12563.9	13270.2	14053.2	14234.8	12943.3	11458.1	11417.7	11316.8	12160.3
52.5°	12414.6	12523.6	13415.5	14416.5	14715.1	14279.2	13322.7	13443.8	13310.6	14372.1
55°	10574.2	10901.1	13326.7	14799.9	15853.3	15788.7	15720.1	15639.3	15631.3	16858.2
57.5°	9738.8	10005.1	11740.6	15223.6	17072.1	17548.4	17992.3	18081.1	18077.1	19558.3
60°	9189.9	9464.3	11098.9	14993.6	18109.4	19852.9	20704.5	20716.6	20692.4	22444.0
62.5°	8116.3	8382.7	9989.0	13734.4	18395.9	21979.8	23876.7	24034.1	22924.3	24930.1
65°	6824.8	7042.8	8459.4	11809.2	17633.1	23331.9	26262.0	26076.3	24805.0	26350.8
67°	5581.7	5727.0	7107.3	10138.3	15639.3	22682.1	26952.1	27105.5	25672.7	26411.3
67.5°	5226.6	5359.8	6663.4	9569.3	14880.6	22189.7	26976.4	26952.1	25688.9	26423.4
70°	3628.3	3684.8	4540.5	6582.7	10961.7	18747.0	25006.8	25063.3	24611.3	24990.7
72.5°	2405.4	2490.2	3035.0	4149.0	6461.6	13641.5	20902.2	21507.6	21221.1	20490.6
75°	1549.8	1598.2	1985.7	2470.0	3180.3	7769.2	15441.6	15845.2	15187.3	12672.9
77.5°	867.7	920.2	1198.7	1501.4	1549.8	3232.8	8673.3	9173.7	7773.3	5384.0
80°	540.8	609.4	904.1	891.9	738.6	1186.6	3575.9	3830.1	3107.7	1852.5
82.5°	407.6	460.1	698.2	625.6	415.7	528.7	1339.9	1436.8	1138.1	714.4
85°	278.5	351.1	504.5	387.5	217.9	254.3	532.7	573.1	520.6	347.1
87.5°	100.9	149.3	262.3	193.7	96.9	76.7	173.5	193.7	185.7	157.4
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°
5355.7	0°	5355.7	5355.7	5355.7	5355.7	5355.7	5355.7	5355.7	5355.7	5355.7	5355.7
5404.2	2.5°	5480.8	5537.3	5565.6	5731.1	5799.7	5787.6	5803.7	5827.9	5852.1	5884.4
5472.8	5°	5525.2	5698.8	5791.6	5985.3	6114.5	6058.0	6130.6	6110.4	6082.2	6078.2
5597.9	7.5°	5670.5	5892.5	6171.0	6223.5	6280.0	6138.7	6017.6	5852.1	5811.8	5670.5
5702.8	10°	5928.8	6110.4	6449.5	6469.6	6219.4	5856.2	5585.8	5242.7	5238.7	5032.8
5864.3	12.5°	6175.0	6380.9	6655.3	6538.3	5940.9	5444.5	5004.6	4629.2	4471.8	4366.9
5961.1	15°	6328.4	6667.4	6812.7	6308.2	5452.6	4782.6	4213.5	3809.9	3648.5	3571.8
6082.2	17.5°	6469.6	6941.9	6877.3	5904.6	4851.2	4100.5	3422.5	3071.4	3027.0	2970.5
6275.9	20°	6663.4	7042.8	6647.2	5379.9	4169.1	3220.7	2788.8	2619.3	2659.7	2683.9
6296.1	22.5°	6845.0	7095.2	6356.6	4806.8	3293.3	2550.7	2336.8	2373.1	2433.7	2514.4
6344.5	25°	6925.7	7180.0	5965.1	4015.8	2506.3	2147.1	2098.7	2159.2	2260.1	2264.2
6413.1	27.5°	6978.2	7119.4	5492.9	3244.9	1981.7	1876.7	1949.4	1993.8	2005.9	2054.3
6558.4	30°	7071.0	6994.3	4895.6	2320.7	1662.8	1666.9	1759.7	1759.7	1759.7	1796.0
6703.7	32.5°	7232.4	6909.6	4197.4	1695.1	1432.8	1561.9	1537.7	1529.6	1513.5	1469.1
6889.4	35°	7333.3	6679.5	3313.5	1255.2	1287.5	1432.8	1424.7	1299.6	1089.7	984.8
7361.6	37.5°	7543.2	6562.5	2437.7	968.6	1202.7	1368.2	1323.8	1021.1	791.0	690.1
7946.8	40°	7995.2	6485.8	1687.0	847.6	1146.2	1335.9	1182.5	871.8	605.4	427.8
8850.9	42.5°	8548.2	6489.8	1146.2	799.1	1150.2	1404.5	1138.1	746.7	427.8	343.1
10057.6	45°	9290.8	6429.3	787.0	799.1	1222.9	1517.5	1166.4	678.0	415.7	435.9
11571.1	47.5°	10089.9	6481.8	585.2	726.5	1235.0	1521.6	1065.5	665.9	399.6	504.5
13217.8	50°	11022.2	6534.2	484.3	670.0	1239.0	1473.1	980.7	649.8	415.7	532.7
15106.6	52.5°	11982.8	6699.7	411.7	633.6	1287.5	1452.9	980.7	674.0	415.7	464.1
17512.0	55°	13415.5	7123.5	593.3	791.0	1465.1	1586.1	1206.8	944.4	581.2	597.3
19816.6	57.5°	14997.6	7559.4	661.9	831.4	1505.4	1428.7	1299.6	1041.3	613.5	617.5
21608.5	60°	16038.9	7575.5	657.9	811.2	1408.6	1235.0	1271.3	1097.8	625.6	528.7
22718.4	62.5°	16454.6	7083.1	686.1	811.2	1311.7	1154.3	1303.6	1182.5	645.8	661.9
23033.2	65°	15982.4	6066.0	661.9	726.5	1154.3	1033.2	1311.7	1198.7	706.3	665.9
22468.2	67°	15243.8	5226.6	674.0	690.1	1073.6	980.7	1380.3	1259.2	819.3	799.1
22173.6	67.5°	15034.0	5004.6	670.0	670.0	1045.3	964.6	1396.4	1259.2	835.4	827.4
19570.4	70°	13250.1	4056.1	686.1	661.9	924.2	916.2	1485.2	1327.8	960.6	968.6
14376.1	72.5°	10085.9	3075.4	682.1	661.9	803.2	875.8	1497.3	1372.2	1045.3	968.6
8051.7	75°	5731.1	1840.4	601.4	577.1	633.6	762.8	1400.5	1307.7	1017.1	867.7
3216.7	77.5°	2369.1	948.5	552.9	520.6	524.7	621.5	1166.4	1218.9	968.6	738.6
1073.6	80°	883.9	569.1	444.0	415.7	403.6	456.1	831.4	972.7	827.4	605.4
472.2	82.5°	460.1	355.2	302.7	302.7	274.4	290.6	448.0	645.8	625.6	415.7
189.7	85°	234.1	201.8	173.5	169.5	153.4	137.2	226.0	383.4	359.2	230.0
84.8	87.5°	125.1	113.0	72.6	68.6	56.5	36.3	40.4	76.7	125.1	100.9
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>
5355.7
5916.7
6114.5
5719.0
5024.8
4342.7
3555.7
2998.7
2655.7
2470.0
2304.5
2098.7
1836.4
1444.9
1033.2
686.1
415.7
335.0
444.0
561.0
617.5
476.2
629.6
597.3
544.9
670.0
653.8
787.0
811.2
896.0
859.7
774.9
698.2
552.9
326.9
189.7
72.6
0.0

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