

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: P477900

Luminaire Tested: **IFLD-S-SA6C-827-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477900
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-827-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens
Light Source: (96) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

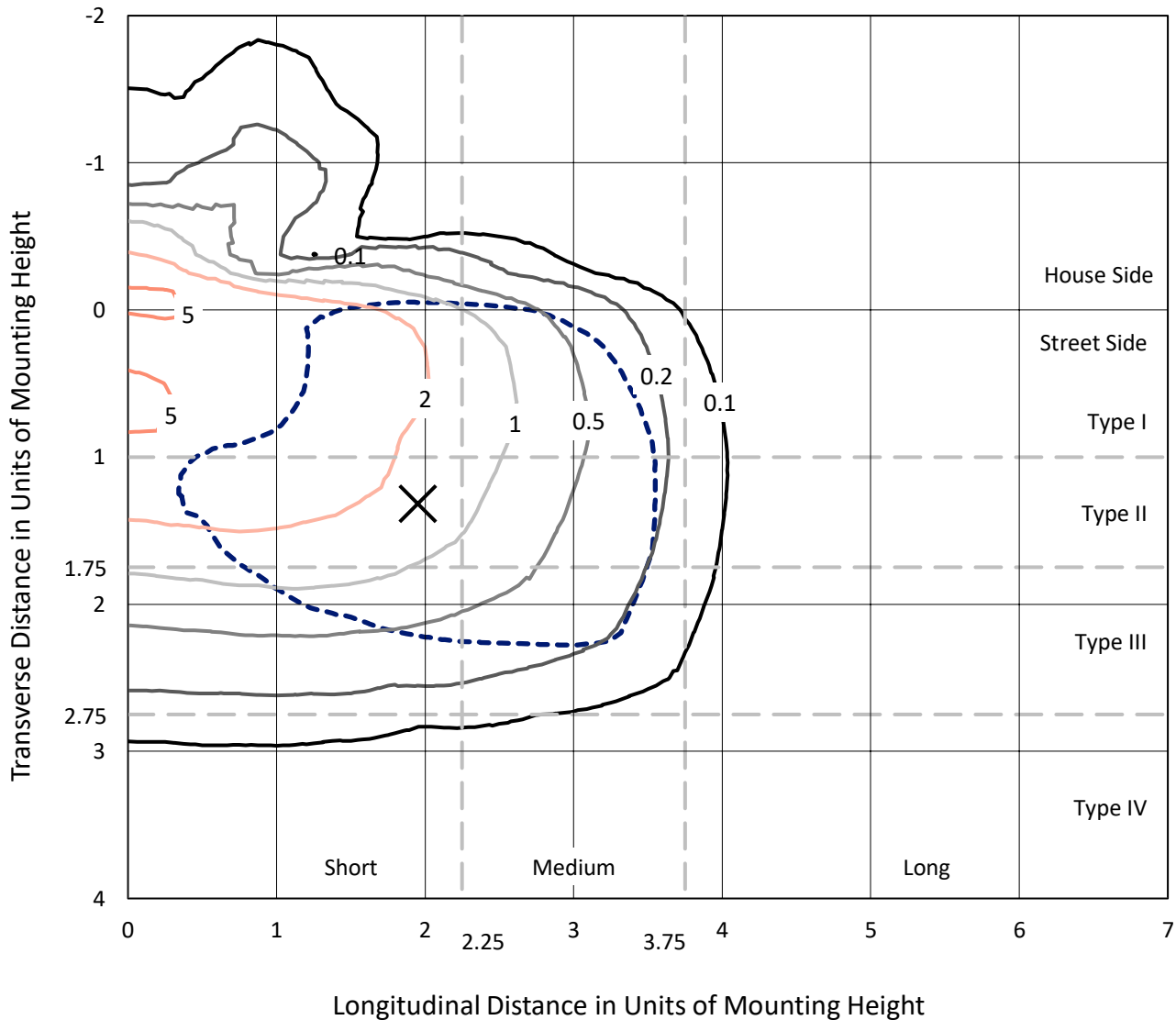
Lumens per Lamp: N/A
Luminaire Lumens: 30004 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 321.5
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

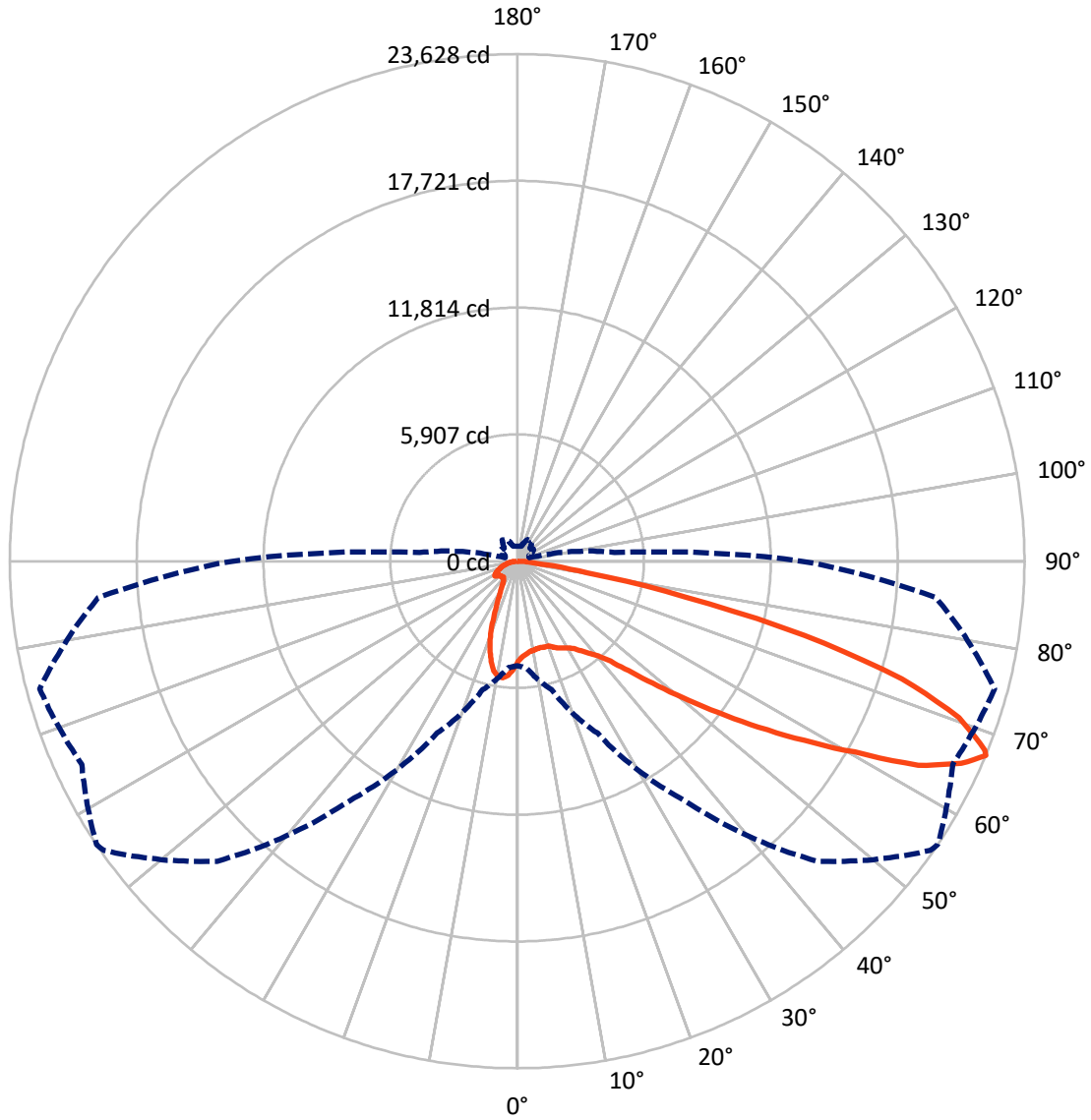
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.8 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	4749.9	0.0	4749.9
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	25254.1	0.0	25254.1
	% Fixture	84.2	0.0	84.2
Total	Lumens	30004.0	0.0	30004.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	449.8	1.5
10°-20°	1227.0	4.1
20°-30°	1924.3	6.4
30°-40°	2746.9	9.2
40°-50°	4145.9	13.8
50°-60°	6599.6	22.0
60°-70°	8437.1	28.1
70°-80°	4113.6	13.7
80°-90°	359.9	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°	30004.0	100.0
0°-180°	30004.0	100.0

Coefficient of Utilization

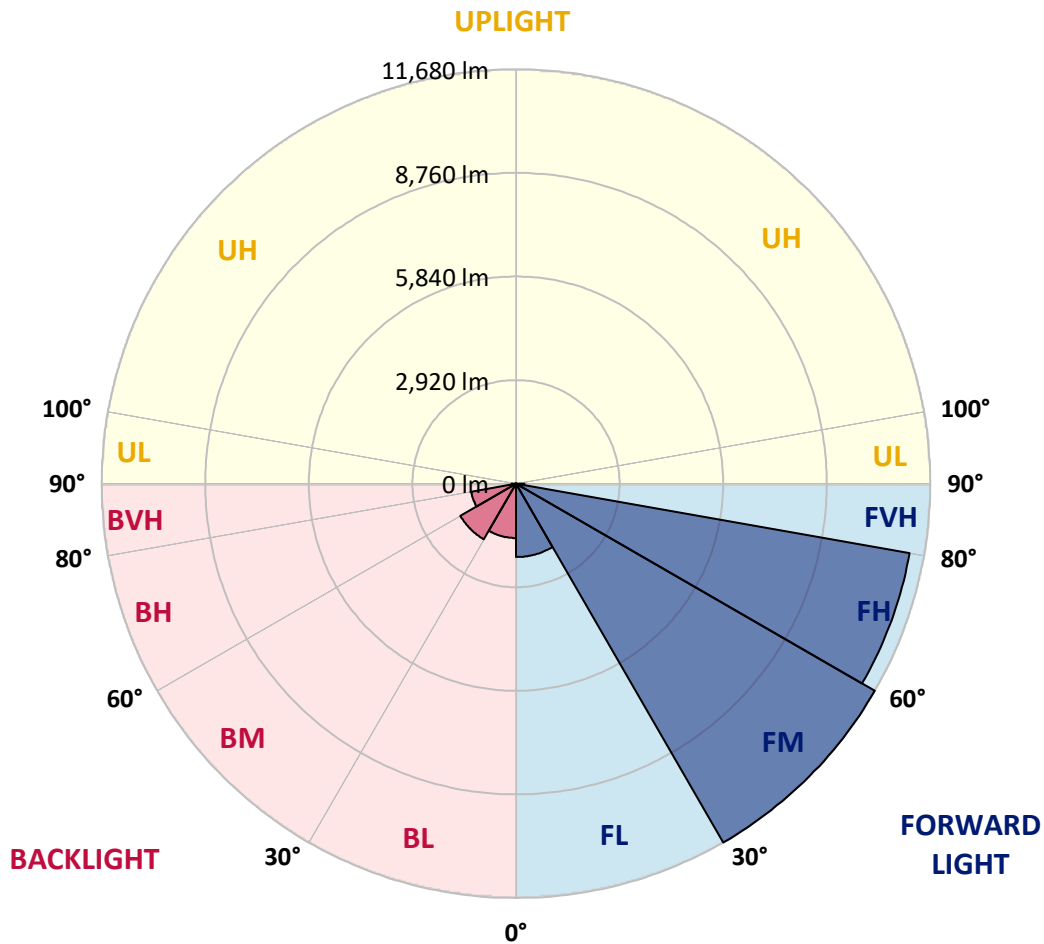


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2067.6	6.9			
FM (30°-60°)	11680.3	38.9			
FH (60°-80°)	11267.2	37.6			G4/12000
FVH (80°-90°)	239.0	0.8			G3/500
BL (0°-30°)	1533.4	5.1	B3/2500		
BM (30°-60°)	1812.1	6.0	B2/2500		
BH (60°-80°)	1283.5	4.3	B3/2500		G3/2500
BVH (80°-90°)	120.9	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°	4668.5	4668.5	4668.5	4668.5	4668.5	4668.5	4668.5	4668.5	4668.5	4668.5
2.5°	4288.6	4271.0	4292.1	4271.0	4366.0	4422.3	4439.9	4464.5	4552.4	4636.9
5°	4109.2	4031.8	4116.2	4144.3	4151.4	4246.4	4344.9	4362.5	4408.2	4545.4
7.5°	3810.1	3898.1	3866.4	3950.8	4038.8	4133.8	4295.6	4249.9	4418.8	4548.9
10°	3746.8	3753.8	3789.0	3820.7	3898.1	4021.2	4246.4	4218.2	4390.6	4668.5
12.5°	3810.1	3810.1	3799.6	3774.9	3862.9	3982.5	4161.9	4176.0	4446.9	4703.7
15°	4031.8	4074.0	3961.4	3979.0	3943.8	3982.5	4140.8	4172.5	4468.0	4731.9
17.5°	4573.6	4559.5	4425.8	4239.3	4084.5	4059.9	4169.0	4204.2	4446.9	4812.8
20°	5101.3	5073.1	4840.9	4647.4	4341.4	4197.1	4214.7	4218.2	4482.1	4865.6
22.5°	5688.8	5762.7	5509.4	5115.3	4735.4	4376.5	4306.2	4362.5	4563.0	4893.7
25°	6610.5	6452.2	6234.1	5716.9	5104.8	4654.5	4457.5	4485.6	4640.4	4964.1
27.5°	7275.5	7212.1	6870.9	6452.2	5622.0	4872.6	4538.4	4591.1	4781.1	4960.5
30°	7915.8	7915.8	7708.2	7082.0	6167.3	5238.5	4710.8	4686.1	4714.3	4953.5
32.5°	8665.1	8563.1	8264.1	7848.9	6853.3	5572.7	4848.0	4855.0	4855.0	5083.7
35°	9059.2	9224.5	9024.0	8348.5	7377.5	6128.6	5178.7	5125.9	5087.2	5227.9
37.5°	9636.1	9734.6	9523.5	9126.0	8028.3	6578.9	5470.7	5428.5	5203.3	5340.5
40°	9984.4	9966.8	9959.8	9776.9	8890.3	7110.1	5899.9	5790.8	5488.3	5738.1
42.5°	10181.4	10146.3	10579.0	10466.4	9703.0	7891.1	6438.2	6378.3	6044.1	6445.2
45°	10403.1	10663.4	11018.7	11335.4	10649.3	8988.8	7349.4	7264.9	6965.9	7476.0
47.5°	10596.6	10916.7	11370.6	11708.3	11504.2	10181.4	8475.1	8496.3	8299.2	8823.4
50°	10920.2	10951.9	11567.6	12250.1	12408.4	11282.6	9987.9	9952.8	9864.8	10600.1
52.5°	10821.7	10916.7	11694.2	12566.7	12827.1	12447.1	11613.3	11718.9	11602.8	12528.0
55°	9217.5	9502.4	11616.8	12900.9	13819.2	13762.9	13703.1	13632.7	13625.7	14695.2
57.5°	8489.2	8721.4	10234.2	13270.3	14881.6	15296.8	15683.8	15761.2	15757.7	17048.8
60°	8010.8	8250.0	9674.8	13069.8	15785.8	17305.6	18047.9	18058.5	18037.4	19564.3
62.5°	7074.9	7307.1	8707.3	11972.2	16035.6	19159.7	20813.2	20950.4	19982.9	21731.4
65°	5949.1	6139.1	7374.0	10294.0	15370.7	20338.2	22892.4	22730.6	21622.4	22969.8
67°	4865.6	4992.2	6195.4	8837.5	13632.7	19771.8	23494.0	23627.7	22378.8	23022.6
67.5°	4556.0	4672.1	5808.4	8341.5	12971.3	19342.6	23515.1	23494.0	22392.8	23033.1
70°	3162.8	3212.0	3957.9	5738.1	9555.2	16341.7	21798.3	21847.5	21453.5	21784.2
72.5°	2096.8	2170.7	2645.6	3616.6	5632.5	11891.2	18220.3	18748.1	18498.3	17861.5
75°	1351.0	1393.2	1730.9	2153.1	2772.3	6772.4	13460.3	13812.1	13238.7	11046.9
77.5°	756.4	802.1	1044.9	1308.7	1351.0	2818.0	7560.4	7996.7	6775.9	4693.2
80°	471.4	531.2	788.1	777.5	643.8	1034.3	3117.1	3338.7	2709.0	1614.8
82.5°	355.3	401.1	608.6	545.3	362.4	460.9	1168.0	1252.5	992.1	622.7
85°	242.8	306.1	439.8	337.7	190.0	221.6	464.4	499.6	453.8	302.6
87.5°	88.0	130.2	228.7	168.9	84.4	66.8	151.3	168.9	161.8	137.2
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°
4668.5	0°	4668.5	4668.5	4668.5	4668.5	4668.5	4668.5	4668.5	4668.5	4668.5	4668.5
4710.8	2.5°	4777.6	4826.9	4851.5	4995.7	5055.5	5045.0	5059.1	5080.2	5101.3	5129.4
4770.6	5°	4816.3	4967.6	5048.5	5217.4	5330.0	5280.7	5344.0	5326.4	5301.8	5298.3
4879.6	7.5°	4943.0	5136.5	5379.2	5424.9	5474.2	5351.1	5245.5	5101.3	5066.1	4943.0
4971.1	10°	5168.1	5326.4	5622.0	5639.5	5421.4	5104.8	4869.1	4570.0	4566.5	4387.1
5111.8	12.5°	5382.7	5562.1	5801.4	5699.4	5178.7	4745.9	4362.5	4035.3	3898.1	3806.6
5196.3	15°	5516.4	5811.9	5938.6	5498.8	4753.0	4169.0	3672.9	3321.1	3180.4	3113.5
5301.8	17.5°	5639.5	6051.2	5994.9	5147.0	4228.8	3574.4	2983.4	2677.3	2638.6	2589.3
5470.7	20°	5808.4	6139.1	5794.3	4689.7	3634.2	2807.5	2431.0	2283.3	2318.4	2339.5
5488.3	22.5°	5966.7	6184.9	5541.0	4190.1	2870.8	2223.5	2037.0	2068.7	2121.4	2191.8
5530.5	25°	6037.1	6258.7	5199.8	3500.5	2184.8	1871.6	1829.4	1882.2	1970.1	1973.7
5590.3	27.5°	6082.8	6206.0	4788.2	2828.6	1727.4	1635.9	1699.3	1738.0	1748.5	1790.7
5716.9	30°	6163.7	6096.9	4267.5	2022.9	1449.5	1453.0	1533.9	1533.9	1533.9	1565.6
5843.6	32.5°	6304.5	6023.0	3658.8	1477.6	1248.9	1361.5	1340.4	1333.4	1319.3	1280.6
6005.4	35°	6392.4	5822.5	2888.4	1094.1	1122.3	1248.9	1241.9	1132.8	949.9	858.4
6417.0	37.5°	6575.4	5720.5	2124.9	844.3	1048.4	1192.6	1153.9	890.1	689.6	601.6
6927.2	40°	6969.4	5653.6	1470.6	738.8	999.1	1164.5	1030.8	759.9	527.7	372.9
7715.2	42.5°	7451.4	5657.1	999.1	696.6	1002.7	1224.3	992.1	650.9	372.9	299.0
8767.2	45°	8098.7	5604.4	686.0	696.6	1066.0	1322.8	1016.7	591.0	362.4	380.0
10086.4	47.5°	8795.3	5650.1	510.1	633.3	1076.5	1326.3	928.8	580.5	348.3	439.8
11521.8	50°	9608.0	5695.8	422.2	584.0	1080.1	1284.1	854.9	566.4	362.4	464.4
13168.3	52.5°	10445.3	5840.1	358.8	552.3	1122.3	1266.5	854.9	587.5	362.4	404.6
15265.1	55°	11694.2	6209.5	517.2	689.6	1277.1	1382.6	1051.9	823.2	506.6	520.7
17274.0	57.5°	13073.3	6589.4	577.0	724.7	1312.3	1245.4	1132.8	907.7	534.8	538.3
18836.0	60°	13981.0	6603.5	573.5	707.1	1227.8	1076.5	1108.2	956.9	545.3	460.9
19803.5	62.5°	14343.4	6174.3	598.1	707.1	1143.4	1006.2	1136.4	1030.8	562.9	577.0
20077.9	65°	13931.8	5287.7	577.0	633.3	1006.2	900.6	1143.4	1044.9	615.7	580.5
19585.4	67°	13287.9	4556.0	587.5	601.6	935.8	854.9	1203.2	1097.7	714.2	696.6
19328.5	67.5°	13105.0	4362.5	584.0	584.0	911.2	840.8	1217.3	1097.7	728.3	721.2
17059.4	70°	11550.0	3535.7	598.1	577.0	805.6	798.6	1294.7	1157.5	837.3	844.3
12531.5	72.5°	8791.8	2680.8	594.6	577.0	700.1	763.4	1305.2	1196.2	911.2	844.3
7018.6	75°	4995.7	1604.3	524.2	503.1	552.3	664.9	1220.8	1139.9	886.6	756.4
2803.9	77.5°	2065.1	826.8	482.0	453.8	457.4	541.8	1016.7	1062.5	844.3	643.8
935.8	80°	770.5	496.1	387.0	362.4	351.8	397.5	724.7	847.9	721.2	527.7
411.6	82.5°	401.1	309.6	263.9	263.9	239.2	253.3	390.5	562.9	545.3	362.4
165.4	85°	204.1	175.9	151.3	147.8	133.7	119.6	197.0	334.2	313.1	200.5
73.9	87.5°	109.1	98.5	63.3	59.8	49.3	31.7	35.2	66.8	109.1	88.0
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



180°
4668.5
5157.6
5330.0
4985.2
4380.1
3785.5
3099.5
2614.0
2314.9
2153.1
2008.8
1829.4
1600.7
1259.5
900.6
598.1
362.4
292.0
387.0
489.0
538.3
415.1
548.8
520.7
474.9
584.0
569.9
686.0
707.1
781.0
749.4
675.5
608.6
482.0
285.0
165.4
63.3
0.0

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