

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: P477353

Luminaire Tested: **IFLD-S-SA6B-735-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477353
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-735-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

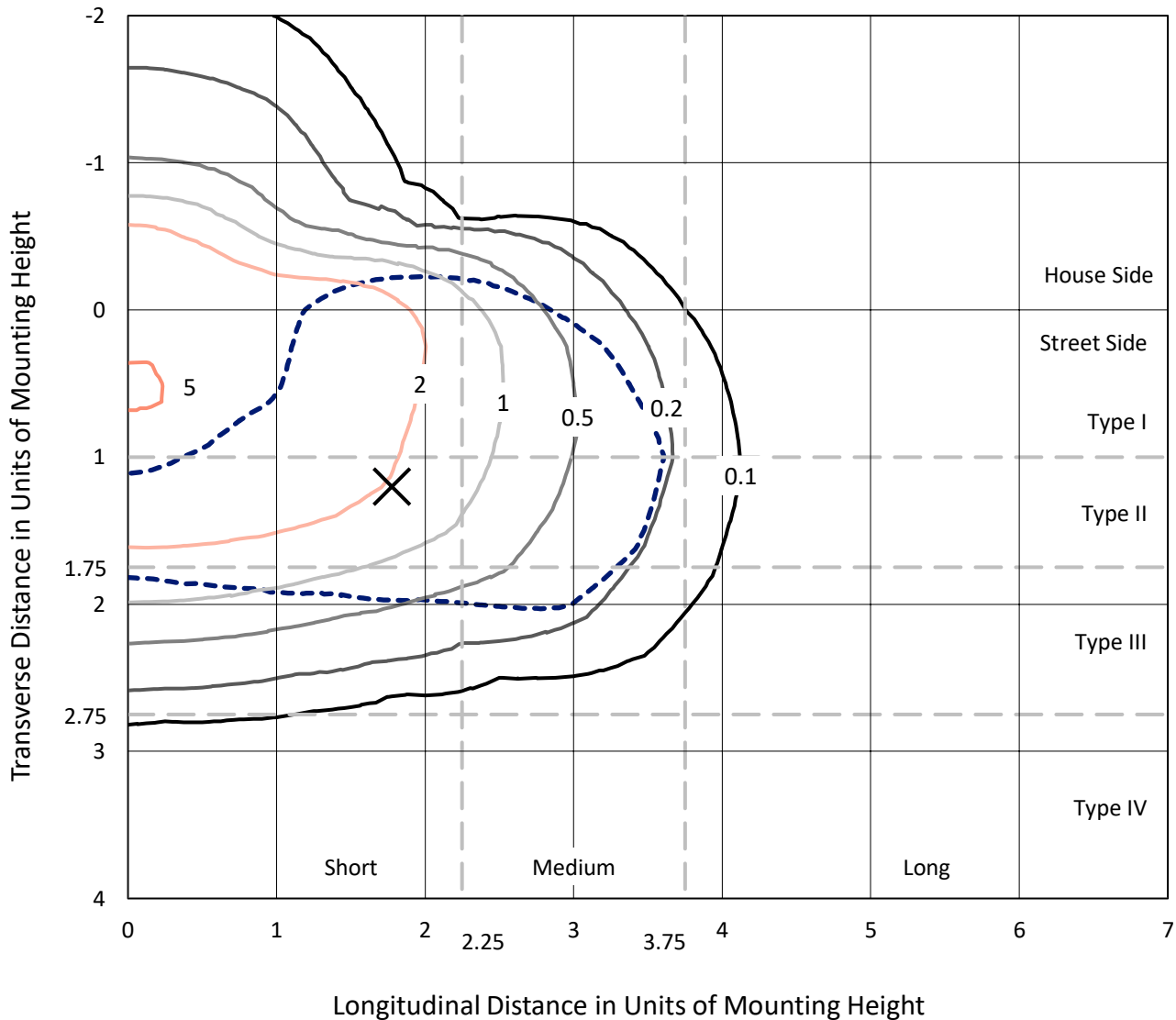
Lumens per Lamp: N/A
Luminaire Lumens: 33532.1 lumens
Efficiency: N/A
Efficacy: 136.9 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 244.9
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

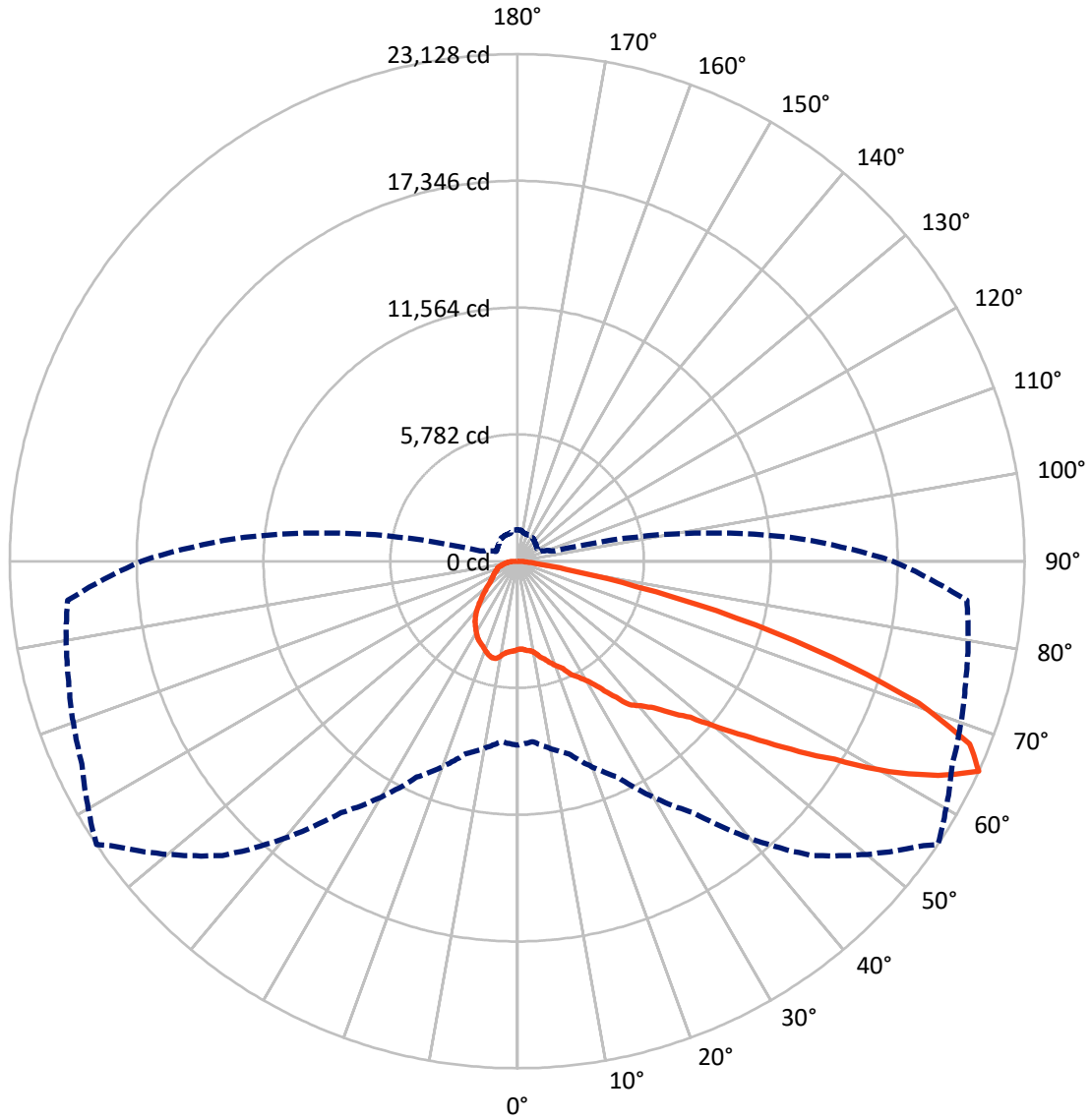
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7520.2	0.0	7520.2
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	26011.9	0.0	26011.9
	% Fixture	77.6	0.0	77.6
Total	Lumens	33532.1	0.0	33532.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	398.8	1.2
10°-20°	1295.1	3.9
20°-30°	2306.0	6.9
30°-40°	3453.2	10.3
40°-50°	5116.3	15.3
50°-60°	7883.5	23.5
60°-70°	8925.1	26.6
70°-80°	3704.0	11.0
80°-90°	450.0	1.3
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°	33532.1	100.0
0°-180°	33532.1	100.0

Coefficient of Utilization

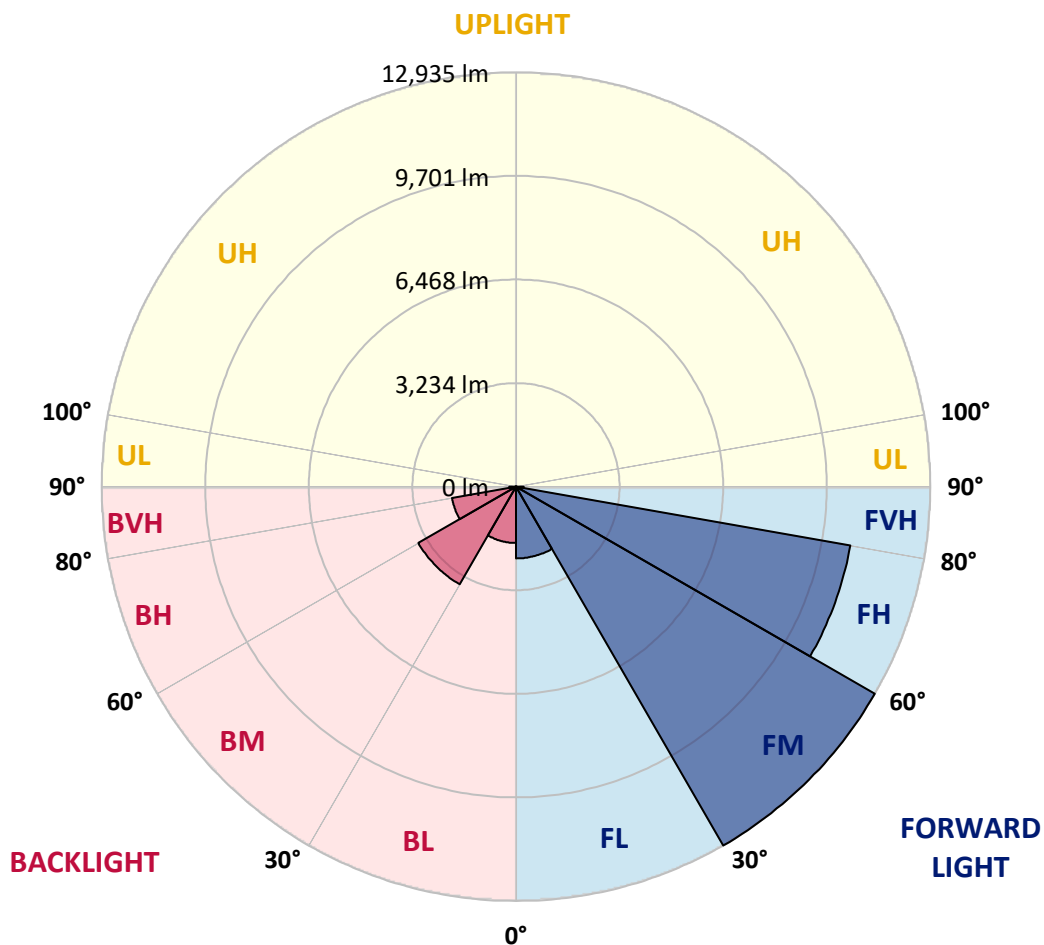


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2240.9	6.7			
FM (30°-60°)	12935.2	38.6			
FH (60°-80°)	10598.4	31.6			G4/12000
FVH (80°-90°)	237.4	0.7			G3/500
BL (0°-30°)	1759.0	5.2	B3/2500		
BM (30°-60°)	3517.8	10.5	B3/5000		
BH (60°-80°)	2030.7	6.1	B3/2500		G3/2500
BVH (80°-90°)	212.6	0.6			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°	4024.8	4024.8	4024.8	4024.8	4024.8	4024.8	4024.8	4024.8	4024.8	4024.8
2.5°	3919.5	3940.6	3926.6	3968.7	4003.8	4003.8	4031.8	4010.8	4038.8	4077.4
5°	4049.4	3965.2	4010.8	4031.8	4021.3	4038.8	4010.8	4081.0	4035.3	4109.0
7.5°	4081.0	4112.5	4151.1	4116.0	4147.6	4130.1	4133.6	4123.1	4098.5	4158.2
10°	4312.5	4266.9	4354.7	4302.0	4295.0	4288.0	4273.9	4221.3	4281.0	4284.5
12.5°	4579.2	4537.1	4533.6	4491.5	4547.6	4445.9	4466.9	4438.9	4449.4	4463.4
15°	4772.2	4754.7	4835.4	4786.3	4712.6	4667.0	4716.1	4638.9	4677.5	4670.5
17.5°	5154.7	5151.2	5091.5	5010.8	4968.7	4902.1	4891.5	4859.9	4888.0	4874.0
20°	5421.4	5460.0	5470.5	5375.8	5214.4	5140.7	5123.1	5098.6	5130.1	5119.6
22.5°	5828.4	5768.8	5814.4	5649.5	5589.8	5414.4	5351.2	5316.1	5467.0	5428.4
25°	6088.1	6151.3	6105.6	6049.5	5916.2	5698.6	5653.0	5730.2	5789.8	5747.7
27.5°	6674.1	6610.9	6568.8	6400.4	6312.7	6084.6	6032.0	6003.9	6017.9	6042.5
30°	7119.7	7154.8	7060.1	6940.8	6719.7	6488.1	6365.3	6340.7	6291.6	6249.5
32.5°	7754.9	7702.2	7646.1	7568.9	7379.4	7074.1	6954.8	6863.6	6716.2	6519.7
35°	8060.1	8211.0	8168.9	7961.9	7818.0	7702.2	7667.1	7526.8	7404.0	7095.2
37.5°	8569.0	8632.1	8572.5	8505.8	8439.1	8316.3	8274.2	8312.8	8070.7	7561.9
40°	8898.8	9032.1	9155.0	8969.0	8954.9	8979.5	8719.8	8674.2	8175.9	7909.3
42.5°	9572.5	9628.7	9653.2	9646.2	9726.9	9726.9	9232.1	9133.9	8779.5	8561.9
45°	10463.8	10509.4	10597.1	10660.3	10569.1	10614.7	9909.4	9870.8	9555.0	9512.9
47.5°	11235.8	11344.6	11541.1	11727.0	11846.3	11692.0	10920.0	10646.3	10565.6	10818.2
50°	11909.5	11779.7	12239.4	12428.8	12951.7	13207.8	12035.8	11927.1	11797.2	12281.5
52.5°	11976.2	12151.6	12800.8	13179.8	14257.0	14730.7	13404.3	13358.7	13200.8	13758.7
55°	12453.4	12432.3	13085.0	13906.1	15186.9	15983.4	15186.9	15158.8	14814.9	15344.8
57.5°	12372.7	12586.7	13102.6	14250.0	16025.6	17327.4	17253.7	17060.7	16580.0	17011.6
60°	12099.0	12155.1	12783.2	14239.5	16513.3	18706.4	19485.4	19524.0	18541.5	18885.4
62.5°	10548.0	10677.9	11474.4	13120.1	16165.9	19657.4	21664.5	21527.6	20741.6	20348.6
65°	8390.0	8260.2	9088.3	10867.3	14004.4	18983.6	22618.9	23127.7	21892.6	21173.2
67.5°	5144.2	5112.6	5909.1	7477.7	10477.8	16155.4	21857.5	22254.0	21573.3	20997.8
70°	2649.3	2568.6	3066.9	4172.2	6586.4	11853.4	19022.2	19411.7	20060.9	18832.7
72.5°	1235.2	1217.6	1484.3	2052.8	3354.6	6968.9	14730.7	15011.5	16380.0	15878.2
75°	726.4	736.9	887.8	1073.8	1635.2	3284.4	9776.0	10319.9	11804.2	11442.8
77.5°	543.9	543.9	631.6	747.4	954.4	1270.3	4824.9	5544.2	6902.2	6207.4
80°	400.0	407.0	484.2	561.4	663.2	656.2	1915.9	2245.8	3165.1	2705.4
82.5°	312.3	322.8	375.5	417.6	466.7	396.5	786.0	845.7	1301.8	1035.2
85°	217.6	224.6	294.8	284.2	284.2	221.1	326.3	343.9	515.8	491.3
87.5°	52.6	59.7	143.9	157.9	119.3	66.7	101.8	115.8	186.0	214.0
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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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4024.8	0°	4024.8	4024.8	4024.8	4024.8	4024.8	4024.8	4024.8	4024.8	4024.8	4024.8
4095.0	2.5°	4042.4	4056.4	4116.0	4084.5	4102.0	4028.3	4088.0	4038.8	4081.0	4059.9
4126.6	5°	4154.6	4123.1	4158.2	4133.6	4133.6	4161.7	4203.8	4172.2	4235.3	4207.3
4151.1	7.5°	4200.3	4203.8	4224.8	4228.3	4210.8	4298.5	4302.0	4291.5	4351.1	4337.1
4319.6	10°	4312.5	4316.1	4354.7	4375.7	4358.2	4389.7	4354.7	4326.6	4323.1	4309.0
4452.9	12.5°	4491.5	4526.6	4519.6	4537.1	4540.6	4407.3	4326.6	4189.7	4172.2	4189.7
4649.4	15°	4656.4	4642.4	4649.4	4684.5	4537.1	4323.1	4179.2	4063.4	4070.4	4073.9
4905.6	17.5°	4852.9	4863.5	4874.0	4712.6	4442.4	4189.7	4063.4	4063.4	4028.3	4042.4
5084.5	20°	5077.5	5035.4	4944.2	4716.1	4277.5	4035.3	3996.7	3996.7	3954.6	3926.6
5277.5	22.5°	5253.0	5168.7	5031.9	4607.3	4130.1	3975.7	3880.9	3814.3	3765.1	3709.0
5491.6	25°	5365.2	5319.6	5052.9	4495.0	4021.3	3817.8	3677.4	3575.7	3512.5	3438.8
5660.0	27.5°	5537.2	5449.5	5112.6	4365.2	3902.0	3659.9	3442.3	3284.4	3165.1	3087.9
5916.2	30°	5768.8	5642.5	5070.5	4179.2	3719.5	3386.2	3130.0	2926.5	2789.6	2726.5
6158.3	32.5°	5958.3	5793.3	5035.4	4010.8	3516.0	3109.0	2768.6	2561.6	2484.4	2403.7
6565.3	35°	6319.7	5993.4	5010.8	3916.0	3333.5	2831.8	2473.8	2294.9	2196.6	2077.3
6807.4	37.5°	6596.9	6340.7	4951.2	3719.5	3098.4	2561.6	2249.3	2087.8	1940.5	1814.1
7368.9	40°	7032.0	6825.0	4954.7	3442.3	2821.2	2330.0	2073.8	1905.4	1719.4	1610.6
8200.5	42.5°	7849.6	7302.2	4975.7	3221.3	2508.9	2140.5	1915.9	1715.9	1529.9	1438.7
9147.9	45°	8853.2	7958.4	4845.9	3021.2	2189.6	1961.5	1726.4	1526.4	1407.1	1340.4
10435.7	47.5°	10007.6	8600.5	4670.5	2645.8	1922.9	1772.0	1551.0	1435.2	1347.5	1308.9
12095.5	50°	11298.9	9519.9	4621.3	2301.9	1715.9	1610.6	1466.8	1379.0	1319.4	1273.8
13965.8	52.5°	12962.2	10590.1	4523.1	1947.5	1536.9	1480.8	1435.2	1375.5	1322.9	1284.3
15709.7	55°	14551.8	11776.2	4417.8	1656.2	1410.6	1417.6	1442.2	1389.6	1343.9	1284.3
17664.2	57.5°	16341.4	12986.8	4028.3	1442.2	1315.9	1386.1	1435.2	1375.5	1329.9	1284.3
19664.4	60°	17446.7	13667.5	3266.9	1256.2	1231.7	1326.4	1393.1	1329.9	1280.8	1298.3
20583.7	62.5°	17895.8	13309.6	2463.3	1140.4	1172.0	1245.7	1326.4	1301.8	1266.7	1333.4
20573.2	65°	17130.9	12485.0	1761.5	1042.2	1091.3	1165.0	1266.7	1294.8	1305.3	1435.2
18895.9	67.5°	15243.0	10870.8	1294.8	961.5	1007.1	1115.9	1308.9	1354.5	1347.5	1508.9
15857.1	70°	12197.2	8502.3	1010.6	894.8	975.5	1154.5	1368.5	1368.5	1319.4	1508.9
12095.5	72.5°	8874.2	5993.4	870.2	817.6	894.8	1059.7	1361.5	1358.0	1294.8	1379.0
7702.2	75°	5372.3	3487.9	768.5	740.4	768.5	908.8	1301.8	1280.8	1193.1	1186.0
3705.5	77.5°	2677.4	1754.5	628.1	656.2	670.2	761.5	1143.9	1175.5	1056.2	1028.1
1463.2	80°	1129.9	765.0	522.8	564.9	564.9	642.1	950.9	972.0	877.2	824.6
579.0	82.5°	515.8	438.6	445.6	491.3	459.7	498.3	754.4	779.0	712.3	624.6
245.6	85°	217.6	249.1	340.4	386.0	340.4	322.8	519.3	547.4	463.2	386.0
105.3	87.5°	98.3	136.9	214.0	280.7	171.9	150.9	277.2	287.7	231.6	171.9
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>
4024.8
4021.3
4168.7
4316.1
4309.0
4196.8
4123.1
4045.9
3884.5
3677.4
3452.8
3123.0
2761.6
2400.1
2066.8
1817.7
1621.2
1445.7
1354.5
1301.8
1280.8
1280.8
1280.8
1280.8
1284.3
1315.9
1435.2
1519.4
1477.3
1329.9
1172.0
1010.6
807.1
610.6
389.5
161.4
0.0

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