

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: P477401

Luminaire Tested: **IFLD-L-SA7A-740-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477401
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-740-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

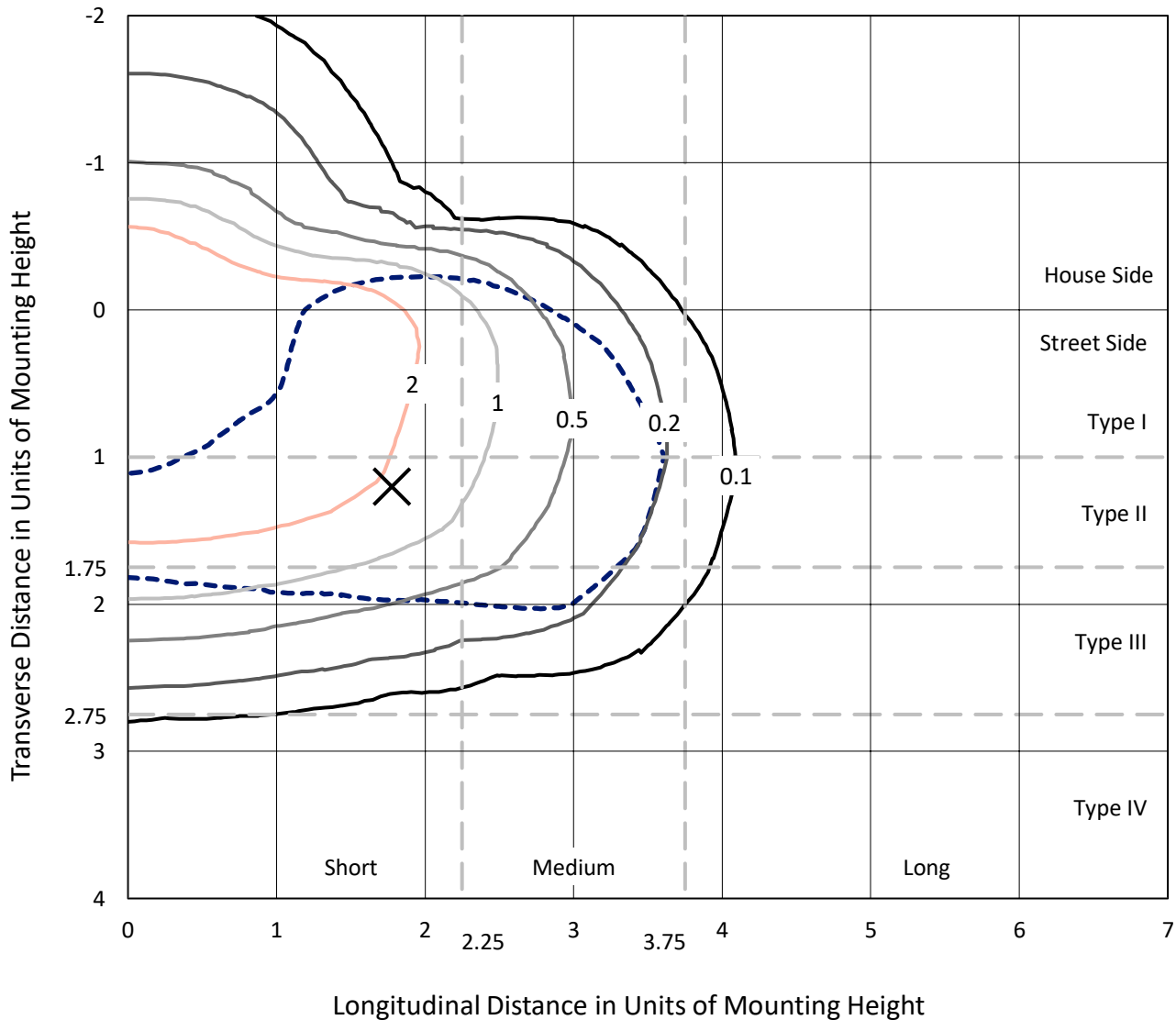
Lumens per Lamp: N/A
Luminaire Lumens: 31880.2 lumens
Efficiency: N/A
Efficacy: 146.5 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 217.6
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

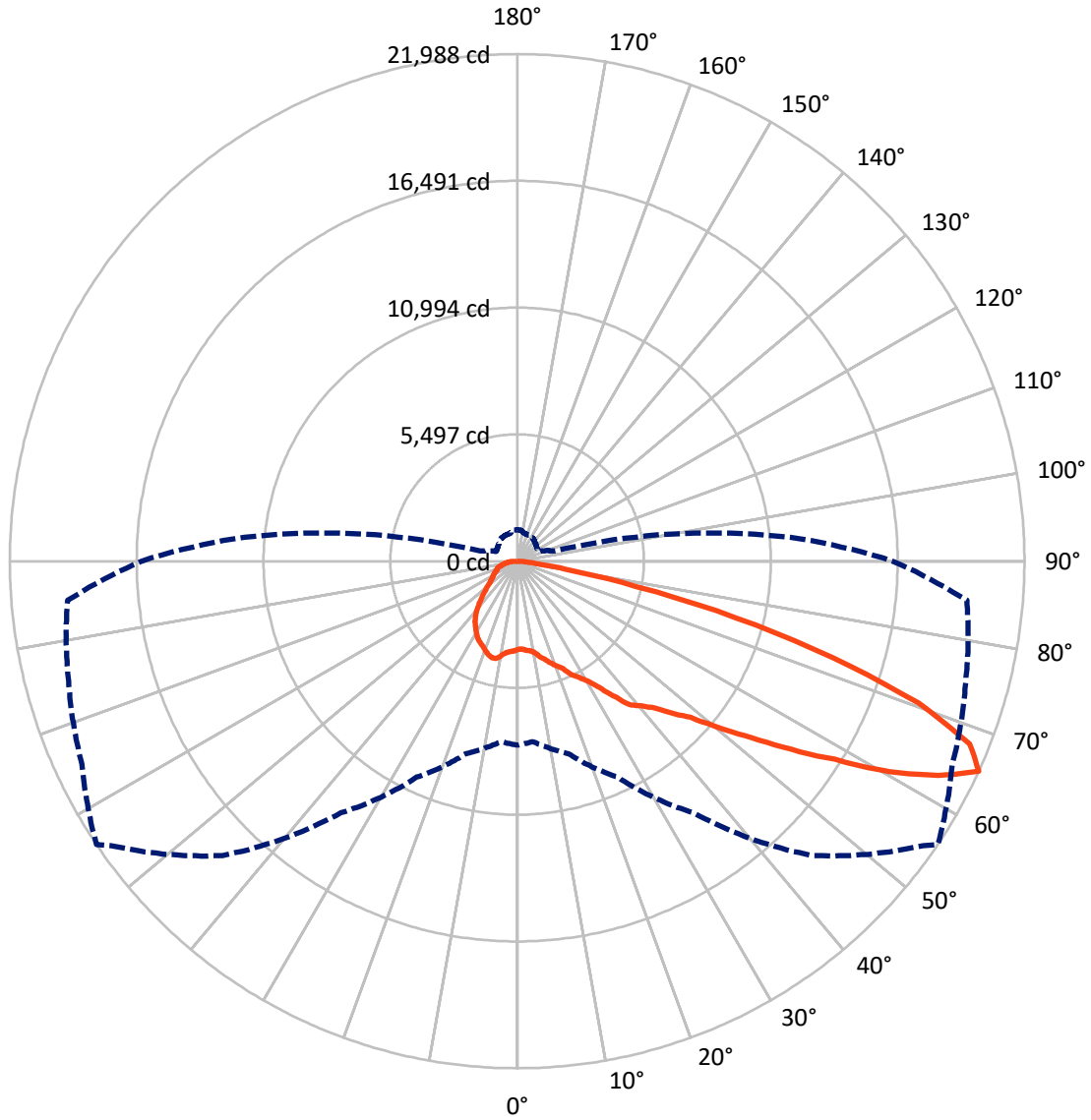
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.9 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	7149.7	0.0	7149.7
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	24730.5	0.0	24730.5
	% Fixture	77.6	0.0	77.6
Total	Lumens	31880.2	0.0	31880.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	379.2	1.2
10°-20°	1231.3	3.9
20°-30°	2192.4	6.9
30°-40°	3283.1	10.3
40°-50°	4864.3	15.3
50°-60°	7495.2	23.5
60°-70°	8485.4	26.6
70°-80°	3521.5	11.0
80°-90°	427.8	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°	31880.2	100.0
0°-180°	31880.2	100.0

Coefficient of Utilization

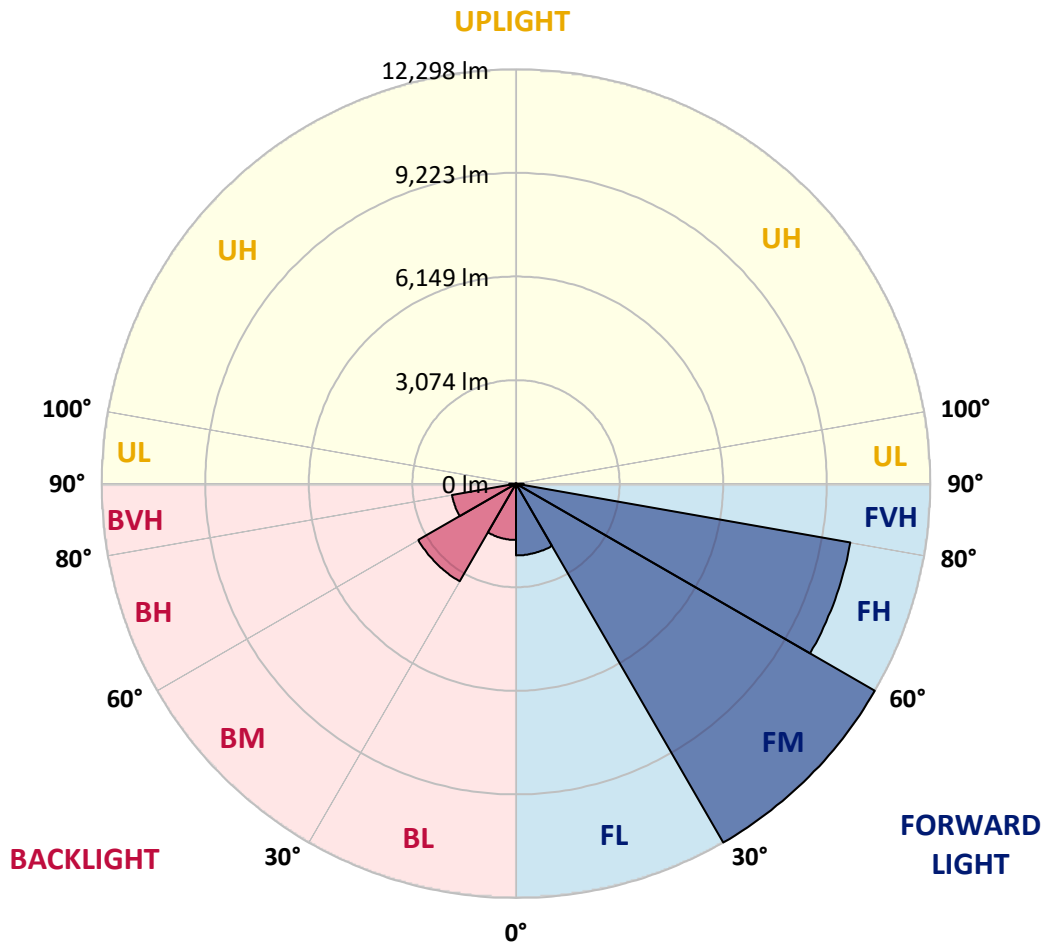


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2130.5	6.7			
FM (30°-60°)	12298.0	38.6			
FH (60°-80°)	10076.3	31.6			G4/12000
FVH (80°-90°)	225.7	0.7			G3/500
BL (0°-30°)	1672.4	5.2	B3/2500		
BM (30°-60°)	3344.5	10.5	B3/5000		
BH (60°-80°)	1930.7	6.1	B3/2500		G3/2500
BVH (80°-90°)	202.2	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°	3826.5	3826.5	3826.5	3826.5	3826.5	3826.5	3826.5	3826.5	3826.5	3826.5
2.5°	3726.5	3746.5	3733.1	3773.2	3806.5	3806.5	3833.2	3813.2	3839.9	3876.6
5°	3849.9	3769.8	3813.2	3833.2	3823.2	3839.9	3813.2	3879.9	3836.5	3906.6
7.5°	3879.9	3909.9	3946.6	3913.3	3943.3	3926.6	3930.0	3919.9	3896.6	3953.3
10°	4100.1	4056.7	4140.1	4090.1	4083.4	4076.7	4063.4	4013.4	4070.1	4073.4
12.5°	4353.6	4313.6	4310.3	4270.2	4323.6	4226.9	4246.9	4220.2	4230.2	4243.6
15°	4537.1	4520.5	4597.2	4550.5	4480.4	4437.0	4483.8	4410.4	4447.1	4440.4
17.5°	4900.8	4897.4	4840.7	4764.0	4724.0	4660.6	4650.6	4620.5	4647.2	4633.9
20°	5154.3	5191.0	5201.0	5110.9	4957.5	4887.4	4870.7	4847.4	4877.4	4867.4
22.5°	5541.3	5484.6	5528.0	5371.2	5314.4	5147.6	5087.6	5054.2	5197.7	5161.0
25°	5788.2	5848.2	5804.9	5751.5	5624.7	5417.9	5374.5	5447.9	5504.6	5464.6
27.5°	6345.3	6285.3	6245.2	6085.1	6001.7	5784.8	5734.8	5708.1	5721.5	5744.8
30°	6769.0	6802.4	6712.3	6598.9	6388.7	6168.5	6051.7	6028.4	5981.7	5941.6
32.5°	7372.8	7322.8	7269.4	7196.0	7015.9	6725.6	6612.2	6525.5	6385.3	6198.5
35°	7663.1	7806.5	7766.5	7569.7	7432.9	7322.8	7289.4	7156.0	7039.2	6745.6
37.5°	8146.8	8206.9	8150.2	8086.8	8023.4	7906.6	7866.6	7903.3	7673.1	7189.4
40°	8460.4	8587.2	8704.0	8527.1	8513.8	8537.1	8290.3	8246.9	7773.2	7519.6
42.5°	9101.0	9154.3	9177.7	9171.0	9247.7	9247.7	8777.3	8683.9	8347.0	8140.1
45°	9948.3	9991.7	10075.1	10135.1	10048.4	10091.8	9421.2	9384.5	9084.3	9044.2
47.5°	10682.3	10785.7	10972.5	11149.3	11262.8	11116.0	10382.0	10121.8	10045.1	10285.3
50°	11322.8	11199.4	11636.4	11816.6	12313.6	12557.2	11442.9	11339.5	11216.1	11676.4
52.5°	11386.2	11553.0	12170.2	12530.5	13554.7	14005.1	12744.0	12700.6	12550.5	13080.9
55°	11839.9	11819.9	12440.4	13221.1	14438.8	15196.1	14438.8	14412.1	14085.1	14588.9
57.5°	11763.2	11966.7	12457.1	13548.0	15236.1	16473.8	16403.7	16220.2	15763.2	16173.5
60°	11503.0	11556.3	12153.5	13538.0	15699.8	17784.9	18525.5	18562.2	17628.1	17955.0
62.5°	10028.4	10151.8	10909.1	12473.8	15369.5	18689.0	20597.2	20467.1	19719.8	19346.2
65°	7976.7	7853.2	8640.6	10332.0	13314.5	18048.4	21504.7	21988.4	20814.1	20130.2
67.5°	4890.8	4860.7	5618.0	7109.3	9961.7	15359.5	20780.7	21157.7	20510.5	19963.4
70°	2518.8	2442.0	2915.8	3966.7	6261.9	11269.4	18085.1	18455.4	19072.6	17905.0
72.5°	1174.3	1157.6	1411.2	1951.6	3189.3	6625.5	14005.1	14271.9	15573.0	15096.0
75°	690.6	700.6	844.0	1020.9	1554.6	3122.6	9294.4	9811.5	11222.7	10879.1
77.5°	517.1	517.1	600.5	710.6	907.4	1207.7	4587.2	5271.1	6562.2	5901.6
80°	380.3	387.0	460.4	533.8	630.5	623.9	1821.5	2135.1	3009.2	2572.2
82.5°	296.9	306.9	357.0	397.0	443.7	377.0	747.3	804.0	1237.7	984.2
85°	206.8	213.5	280.2	270.2	270.2	210.2	310.3	326.9	490.4	467.1
87.5°	50.0	56.7	136.8	150.1	113.4	63.4	96.7	110.1	176.8	203.5
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°
3826.5	0°	3826.5	3826.5	3826.5	3826.5	3826.5	3826.5	3826.5	3826.5	3826.5	3826.5
3893.3	2.5°	3843.2	3856.6	3913.3	3883.3	3899.9	3829.9	3886.6	3839.9	3879.9	3859.9
3923.3	5°	3950.0	3919.9	3953.3	3930.0	3930.0	3956.6	3996.7	3966.7	4026.7	4000.0
3946.6	7.5°	3993.3	3996.7	4016.7	4020.0	4003.4	4086.8	4090.1	4080.1	4136.8	4123.5
4106.8	10°	4100.1	4103.4	4140.1	4160.1	4143.5	4173.5	4140.1	4113.4	4110.1	4096.8
4233.5	12.5°	4270.2	4303.6	4296.9	4313.6	4316.9	4190.2	4113.4	3983.3	3966.7	3983.3
4420.4	15°	4427.0	4413.7	4420.4	4453.7	4313.6	4110.1	3973.3	3863.2	3869.9	3873.2
4663.9	17.5°	4613.9	4623.9	4633.9	4480.4	4223.5	3983.3	3863.2	3863.2	3829.9	3843.2
4834.0	20°	4827.4	4787.3	4700.6	4483.8	4066.7	3836.5	3799.8	3799.8	3759.8	3733.1
5017.5	22.5°	4994.2	4914.1	4784.0	4380.3	3926.6	3779.8	3689.8	3626.4	3579.7	3526.3
5221.0	25°	5100.9	5057.6	4804.0	4273.6	3823.2	3629.7	3496.3	3399.5	3339.5	3269.4
5381.2	27.5°	5264.4	5181.0	4860.7	4150.1	3709.8	3479.6	3272.7	3122.6	3009.2	2935.8
5624.7	30°	5484.6	5364.5	4820.7	3973.3	3536.3	3219.4	2975.8	2782.3	2652.2	2592.2
5854.9	32.5°	5664.7	5507.9	4787.3	3813.2	3342.8	2955.8	2632.2	2435.4	2362.0	2285.2
6241.9	35°	6008.4	5698.1	4764.0	3723.1	3169.3	2692.3	2352.0	2181.8	2088.4	1975.0
6472.1	37.5°	6271.9	6028.4	4707.3	3536.3	2945.8	2435.4	2138.5	1985.0	1844.9	1724.8
7005.9	40°	6685.6	6488.8	4710.6	3272.7	2682.2	2215.2	1971.7	1811.5	1634.7	1531.3
7796.5	42.5°	7462.9	6942.5	4730.6	3062.6	2385.3	2035.0	1821.5	1631.4	1454.6	1367.8
8697.3	45°	8417.0	7566.3	4607.2	2872.4	2081.7	1864.9	1641.4	1451.2	1337.8	1274.4
9921.6	47.5°	9514.6	8176.8	4440.4	2515.4	1828.2	1684.7	1474.6	1364.5	1281.1	1244.4
11499.6	50°	10742.3	9050.9	4393.7	2188.5	1631.4	1531.3	1394.5	1311.1	1254.4	1211.0
13277.8	52.5°	12323.6	10068.4	4300.3	1851.5	1461.2	1407.8	1364.5	1307.8	1257.7	1221.0
14935.8	55°	13834.9	11196.0	4200.2	1574.7	1341.1	1347.8	1371.1	1321.1	1277.7	1221.0
16794.1	57.5°	15536.3	12347.0	3829.9	1371.1	1251.0	1317.8	1364.5	1307.8	1264.4	1221.0
18695.6	60°	16587.2	12994.2	3105.9	1194.3	1171.0	1261.1	1324.4	1264.4	1217.7	1234.4
19569.7	62.5°	17014.2	12653.9	2342.0	1084.2	1114.3	1184.3	1261.1	1237.7	1204.3	1267.7
19559.7	65°	16287.0	11869.9	1674.7	990.8	1037.5	1107.6	1204.3	1231.0	1241.0	1364.5
17965.0	67.5°	14492.1	10335.3	1231.0	914.1	957.5	1060.9	1244.4	1287.7	1281.1	1434.5
15076.0	70°	11596.4	8083.4	960.8	850.7	927.4	1097.6	1301.1	1301.1	1254.4	1434.5
11499.6	72.5°	8437.1	5698.1	827.4	777.3	850.7	1007.5	1294.4	1291.1	1231.0	1311.1
7322.8	75°	5107.6	3316.1	730.6	703.9	730.6	864.1	1237.7	1217.7	1134.3	1127.6
3522.9	77.5°	2545.5	1668.1	597.2	623.9	637.2	723.9	1087.6	1117.6	1004.2	977.5
1391.2	80°	1074.2	727.3	497.1	537.1	537.1	610.5	904.1	924.1	834.0	784.0
550.5	82.5°	490.4	417.0	423.7	467.1	437.0	473.7	717.3	740.6	677.2	593.8
233.5	85°	206.8	236.9	323.6	367.0	323.6	306.9	493.7	520.4	440.4	367.0
100.1	87.5°	93.4	130.1	203.5	266.9	163.5	143.5	263.6	273.6	220.2	163.5
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>
3826.5
3823.2
3963.3
4103.4
4096.8
3990.0
3919.9
3846.6
3693.1
3496.3
3282.7
2969.2
2625.5
2281.9
1965.0
1728.1
1541.3
1374.5
1287.7
1237.7
1217.7
1217.7
1217.7
1217.7
1221.0
1251.0
1364.5
1444.5
1404.5
1264.4
1114.3
960.8
767.3
580.5
370.3
153.5
0.0

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