

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: P477322

Luminaire Tested: **IFLD-M-SA4E-730-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477322
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-730-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

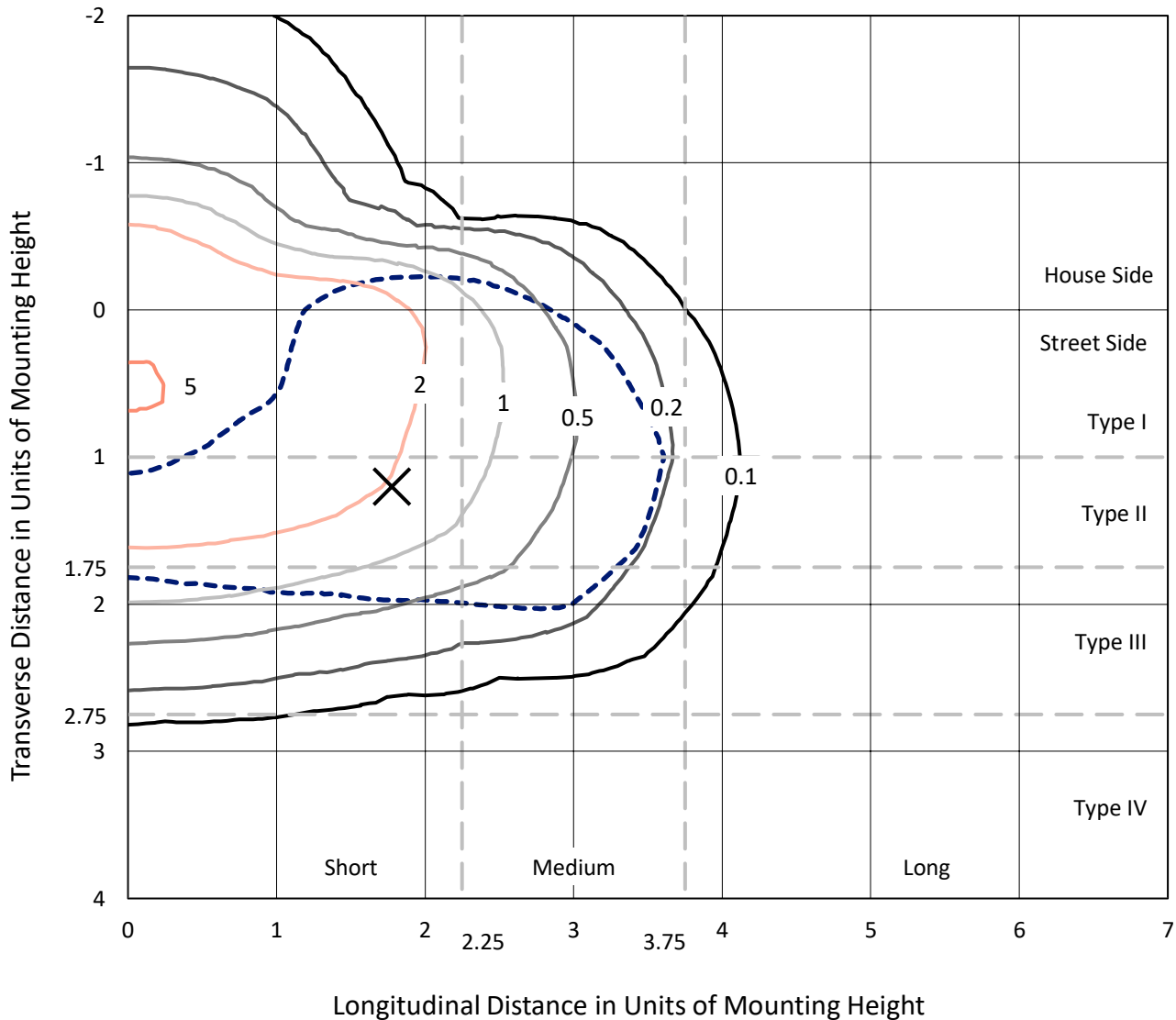
Lumens per Lamp: N/A
Luminaire Lumens: 33578.5 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 314.8
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

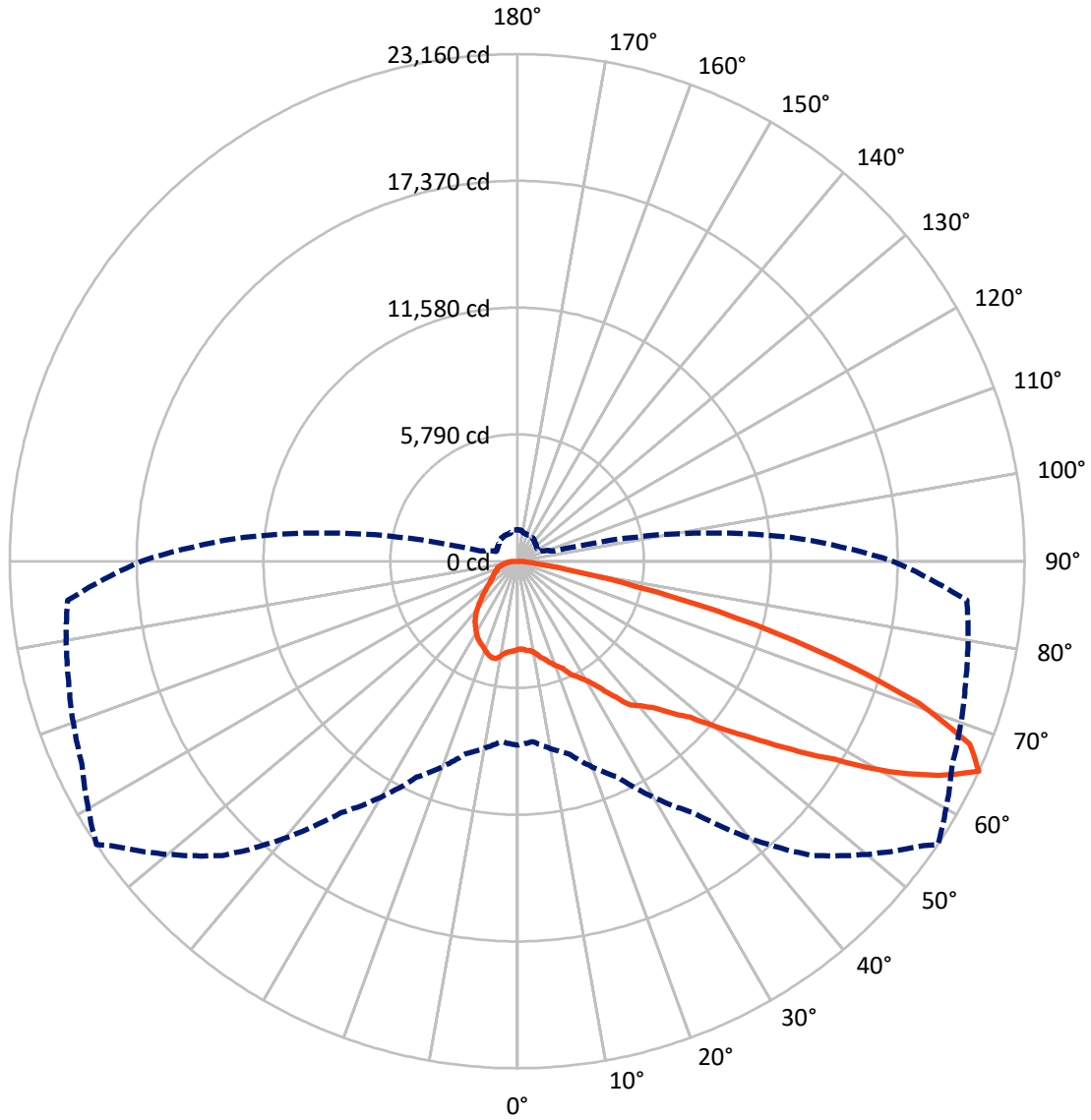
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 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	7530.6	0.0	7530.6
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	26047.9	0.0	26047.9
	% Fixture	77.6	0.0	77.6
Total	Lumens	33578.5	0.0	33578.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	399.4	1.2
10°-20°	1296.9	3.9
20°-30°	2309.2	6.9
30°-40°	3458.0	10.3
40°-50°	5123.4	15.3
50°-60°	7894.4	23.5
60°-70°	8937.5	26.6
70°-80°	3709.1	11.0
80°-90°	450.6	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°	33578.5	100.0
0°-180°	33578.5	100.0

Coefficient of Utilization

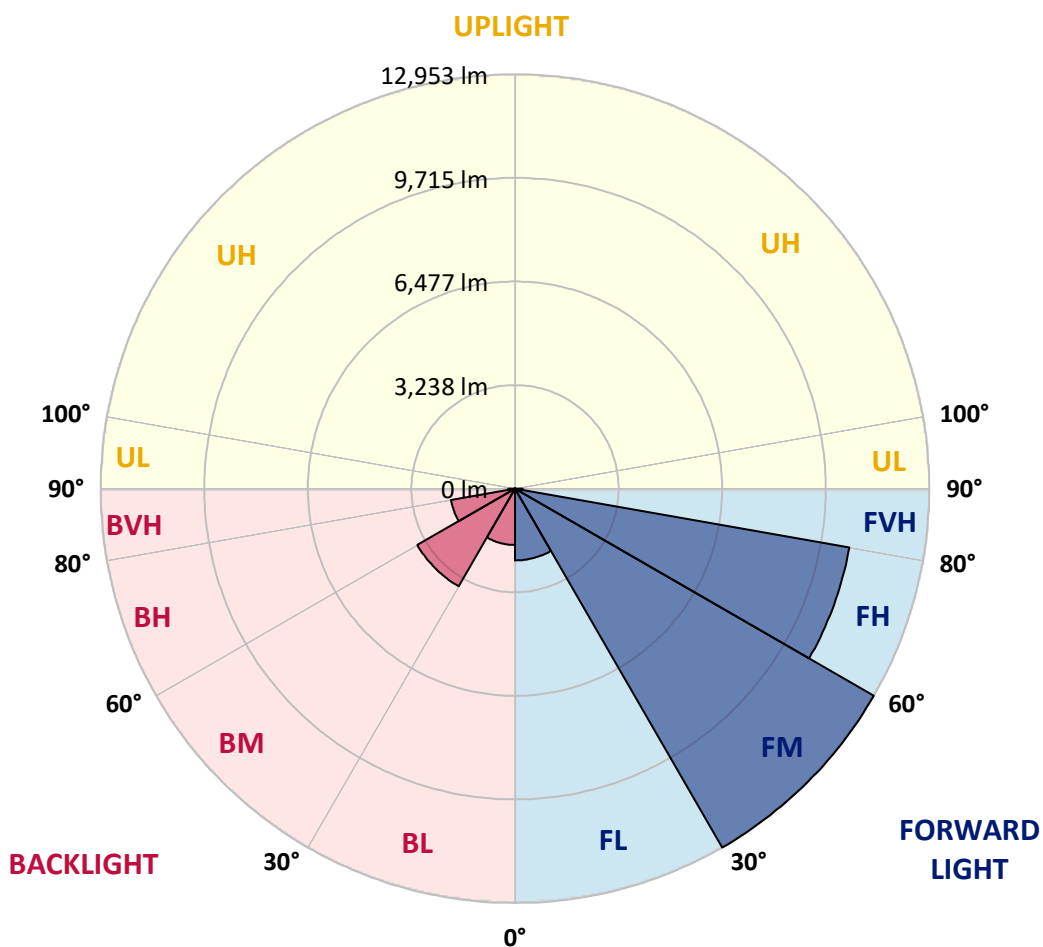


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2244.0	6.7			
FM (30°-60°)	12953.1	38.6			
FH (60°-80°)	10613.1	31.6			G4/12000
FVH (80°-90°)	237.7	0.7			G3/500
BL (0°-30°)	1761.5	5.2	B3/2500		
BM (30°-60°)	3522.7	10.5	B3/5000		
BH (60°-80°)	2033.5	6.1	B3/2500		G3/2500
BVH (80°-90°)	212.9	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°	4030.4	4030.4	4030.4	4030.4	4030.4	4030.4	4030.4	4030.4	4030.4	4030.4
2.5°	3925.0	3946.0	3932.0	3974.2	4009.3	4009.3	4037.4	4016.3	4044.4	4083.1
5°	4055.0	3970.6	4016.3	4037.4	4026.9	4044.4	4016.3	4086.6	4040.9	4114.7
7.5°	4086.6	4118.2	4156.9	4121.7	4153.4	4135.8	4139.3	4128.8	4104.2	4163.9
10°	4318.5	4272.8	4360.7	4308.0	4300.9	4293.9	4279.9	4227.2	4286.9	4290.4
12.5°	4585.6	4543.4	4539.9	4497.7	4553.9	4452.0	4473.1	4445.0	4455.6	4469.6
15°	4778.8	4761.3	4842.1	4792.9	4719.1	4673.4	4722.6	4645.3	4683.9	4676.9
17.5°	5161.8	5158.3	5098.6	5017.8	4975.6	4908.8	4898.3	4866.7	4894.8	4880.7
20°	5428.9	5467.5	5478.1	5383.2	5221.6	5147.8	5130.2	5105.6	5137.2	5126.7
22.5°	5836.5	5776.8	5822.4	5657.3	5597.5	5421.9	5358.6	5323.5	5474.6	5435.9
25°	6096.5	6159.8	6114.1	6057.9	5924.3	5706.5	5660.8	5738.1	5797.8	5755.7
27.5°	6683.3	6620.1	6577.9	6409.2	6321.4	6093.0	6040.3	6012.2	6026.2	6050.8
30°	7129.6	7164.7	7069.8	6950.4	6729.0	6497.1	6374.1	6349.5	6300.3	6258.2
32.5°	7765.6	7712.9	7656.7	7579.4	7389.6	7083.9	6964.4	6873.1	6725.5	6528.7
35°	8071.3	8222.4	8180.2	7972.9	7828.8	7712.9	7677.7	7537.2	7414.2	7105.0
37.5°	8580.8	8644.0	8584.3	8517.6	8450.8	8327.8	8285.6	8324.3	8081.8	7572.3
40°	8911.1	9044.6	9167.6	8981.4	8967.3	8991.9	8731.9	8686.2	8187.2	7920.2
42.5°	9585.8	9642.0	9666.6	9659.5	9740.4	9740.4	9244.9	9146.5	8791.6	8573.8
45°	10478.3	10524.0	10611.8	10675.0	10583.7	10629.4	9923.1	9884.4	9568.2	9526.0
47.5°	11251.3	11360.2	11557.0	11743.3	11862.7	11708.1	10935.1	10661.0	10580.2	10833.2
50°	11926.0	11796.0	12256.3	12446.0	12969.6	13226.1	12052.5	11943.5	11813.5	12298.4
52.5°	11992.7	12168.4	12818.5	13198.0	14276.7	14751.1	13422.9	13377.2	13219.1	13777.8
55°	12470.6	12449.5	13103.1	13925.4	15207.9	16005.5	15207.9	15179.8	14835.4	15366.0
57.5°	12389.8	12604.1	13120.7	14269.7	16047.7	17351.3	17277.6	17084.3	16602.9	17035.1
60°	12115.7	12171.9	12800.9	14259.2	16536.1	18732.3	19512.4	19551.0	18567.1	18911.5
62.5°	10562.6	10692.6	11490.3	13138.3	16188.3	19684.5	21694.5	21557.4	20770.3	20376.8
65°	8401.6	8271.6	9100.8	10882.4	14023.7	19009.9	22650.2	23159.7	21922.9	21202.5
67.5°	5151.3	5119.7	5917.3	7488.0	10492.3	16177.7	21887.7	22284.8	21603.1	21026.8
70°	2652.9	2572.1	3071.1	4178.0	6595.5	11869.8	19048.5	19438.6	20088.6	18858.8
72.5°	1236.9	1219.3	1486.4	2055.6	3359.2	6978.5	14751.1	15032.2	16402.6	15900.1
75°	727.4	737.9	889.0	1075.2	1637.4	3289.0	9789.6	10334.2	11820.6	11458.6
77.5°	544.6	544.6	632.5	748.4	955.8	1272.0	4831.5	5551.9	6911.7	6216.0
80°	400.6	407.6	484.9	562.2	664.1	657.1	1918.6	2248.9	3169.5	2709.2
82.5°	312.7	323.3	376.0	418.1	467.3	397.1	787.1	846.8	1303.6	1036.6
85°	217.9	224.9	295.2	284.6	284.6	221.4	326.8	344.4	516.5	491.9
87.5°	52.7	59.7	144.1	158.1	119.5	66.8	101.9	116.0	186.2	214.3
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°
4030.4	0°	4030.4	4030.4	4030.4	4030.4	4030.4	4030.4	4030.4	4030.4	4030.4	4030.4
4100.7	2.5°	4047.9	4062.0	4121.7	4090.1	4107.7	4033.9	4093.6	4044.4	4086.6	4065.5
4132.3	5°	4160.4	4128.8	4163.9	4139.3	4139.3	4167.4	4209.6	4178.0	4241.2	4213.1
4156.9	7.5°	4206.1	4209.6	4230.7	4234.2	4216.6	4304.5	4308.0	4297.4	4357.2	4343.1
4325.5	10°	4318.5	4322.0	4360.7	4381.8	4364.2	4395.8	4360.7	4332.6	4329.1	4315.0
4459.1	12.5°	4497.7	4532.9	4525.8	4543.4	4546.9	4413.4	4332.6	4195.5	4178.0	4195.5
4655.8	15°	4662.9	4648.8	4655.8	4691.0	4543.4	4329.1	4185.0	4069.0	4076.1	4079.6
4912.3	17.5°	4859.6	4870.2	4880.7	4719.1	4448.5	4195.5	4069.0	4069.0	4033.9	4047.9
5091.6	20°	5084.5	5042.4	4951.0	4722.6	4283.4	4040.9	4002.3	4002.3	3960.1	3932.0
5284.8	22.5°	5260.2	5175.9	5038.8	4613.7	4135.8	3981.2	3886.3	3819.5	3770.4	3714.1
5499.2	25°	5372.7	5327.0	5059.9	4501.2	4026.9	3823.1	3682.5	3580.6	3517.4	3443.6
5667.8	27.5°	5544.8	5457.0	5119.7	4371.2	3907.4	3664.9	3447.1	3289.0	3169.5	3092.2
5924.3	30°	5776.8	5650.3	5077.5	4185.0	3724.7	3390.9	3134.3	2930.5	2793.5	2730.3
6166.8	32.5°	5966.5	5801.4	5042.4	4016.3	3520.9	3113.3	2772.4	2565.1	2487.8	2407.0
6574.4	35°	6328.4	6001.6	5017.8	3921.4	3338.1	2835.7	2477.3	2298.1	2199.7	2080.2
6816.9	37.5°	6606.0	6349.5	4958.0	3724.7	3102.7	2565.1	2252.4	2090.7	1943.2	1816.7
7379.1	40°	7041.7	6834.4	4961.5	3447.1	2825.1	2333.2	2076.7	1908.0	1721.8	1612.9
8211.8	42.5°	7860.5	7312.3	4982.6	3225.7	2512.4	2143.4	1918.6	1718.3	1532.0	1440.7
9160.6	45°	8865.4	7969.4	4852.6	3025.4	2192.6	1964.2	1728.8	1528.5	1409.1	1342.3
10450.2	47.5°	10021.5	8612.4	4676.9	2649.4	1925.6	1774.5	1553.1	1437.2	1349.3	1310.7
12112.2	50°	11314.6	9533.1	4627.7	2305.1	1718.3	1612.9	1468.8	1380.9	1321.2	1275.5
13985.1	52.5°	12980.1	10604.8	4529.3	1950.2	1539.1	1482.8	1437.2	1377.4	1324.7	1286.1
15731.5	55°	14571.9	11792.5	4423.9	1658.5	1412.6	1419.6	1444.2	1391.5	1345.8	1286.1
17688.7	57.5°	16364.0	13004.7	4033.9	1444.2	1317.7	1388.0	1437.2	1377.4	1331.7	1286.1
19691.6	60°	17470.8	13686.4	3271.4	1258.0	1233.4	1328.2	1395.0	1331.7	1282.6	1300.1
20612.2	62.5°	17920.6	13328.0	2466.7	1142.0	1173.6	1247.4	1328.2	1303.6	1268.5	1335.3
20601.6	65°	17154.6	12502.2	1763.9	1043.6	1092.8	1166.6	1268.5	1296.6	1307.1	1437.2
18922.0	67.5°	15264.1	10885.9	1296.6	962.8	1008.5	1117.4	1310.7	1356.3	1349.3	1511.0
15879.0	70°	12214.1	8514.0	1012.0	896.0	976.8	1156.1	1370.4	1370.4	1321.2	1511.0
12112.2	72.5°	8886.5	6001.6	871.4	818.7	896.0	1061.2	1363.4	1359.9	1296.6	1380.9
7712.9	75°	5379.7	3492.8	769.5	741.4	769.5	910.1	1303.6	1282.6	1194.7	1187.7
3710.6	77.5°	2681.1	1756.9	629.0	657.1	671.1	762.5	1145.5	1177.1	1057.7	1029.6
1465.3	80°	1131.5	766.0	523.6	565.7	565.7	643.0	952.3	973.3	878.5	825.8
579.8	82.5°	516.5	439.2	446.3	491.9	460.3	499.0	755.5	780.1	713.3	625.5
246.0	85°	217.9	249.5	340.8	386.5	340.8	323.3	520.0	548.2	463.8	386.5
105.4	87.5°	98.4	137.0	214.3	281.1	172.2	151.1	277.6	288.1	231.9	172.2
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>
4030.4
4026.9
4174.4
4322.0
4315.0
4202.6
4128.8
4051.5
3889.8
3682.5
3457.6
3127.3
2765.4
2403.5
2069.7
1820.2
1623.4
1447.7
1356.3
1303.6
1282.6
1282.6
1282.6
1282.6
1286.1
1317.7
1437.2
1521.5
1479.3
1331.7
1173.6
1012.0
808.2
611.4
390.0
161.6
0.0

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