

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: P477406

Luminaire Tested: **IFLD-L-SA8A-740-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477406
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-740-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

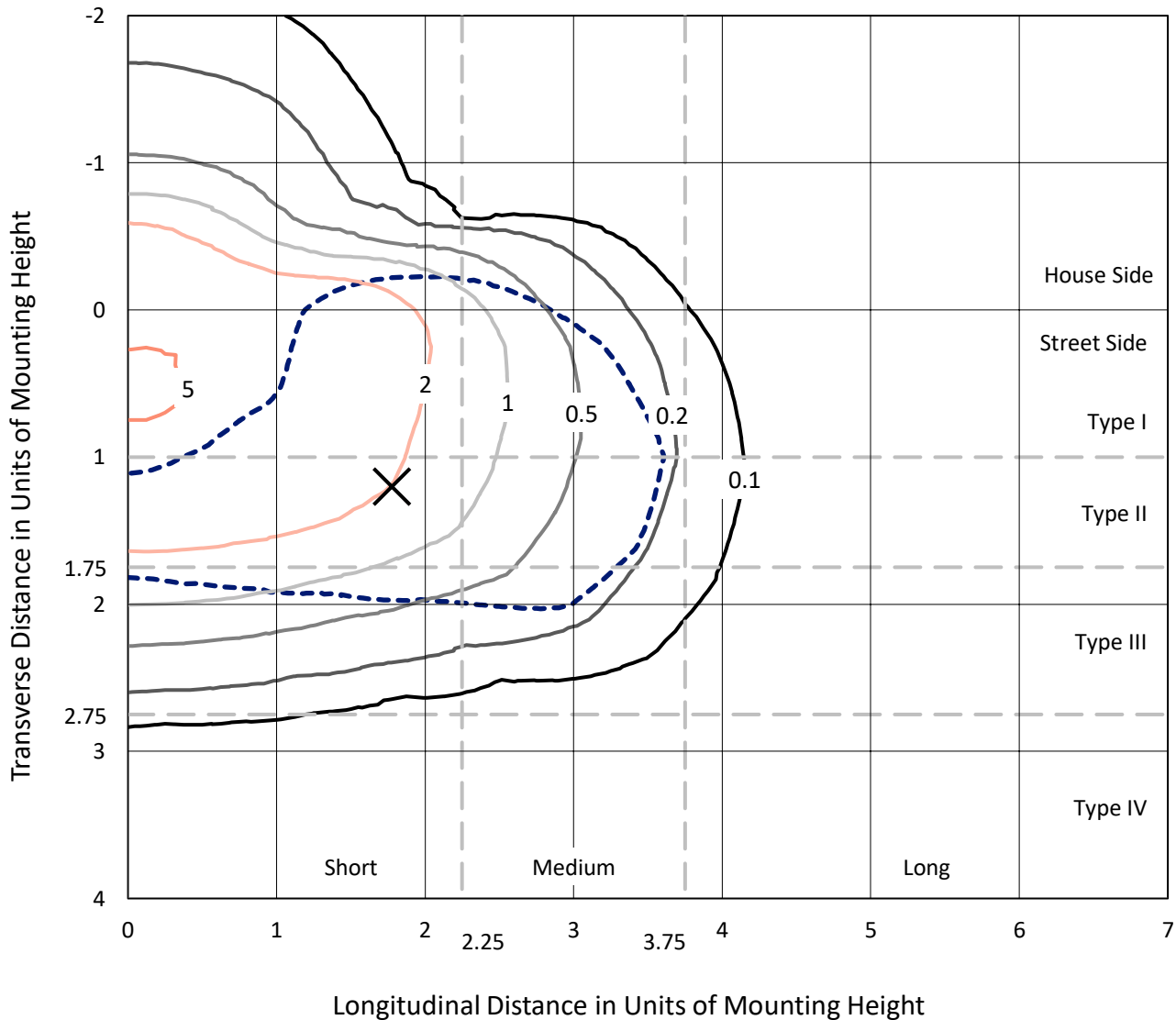
Lumens per Lamp: N/A
Luminaire Lumens: 34890.7 lumens
Efficiency: N/A
Efficacy: 140.8 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 247.8
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

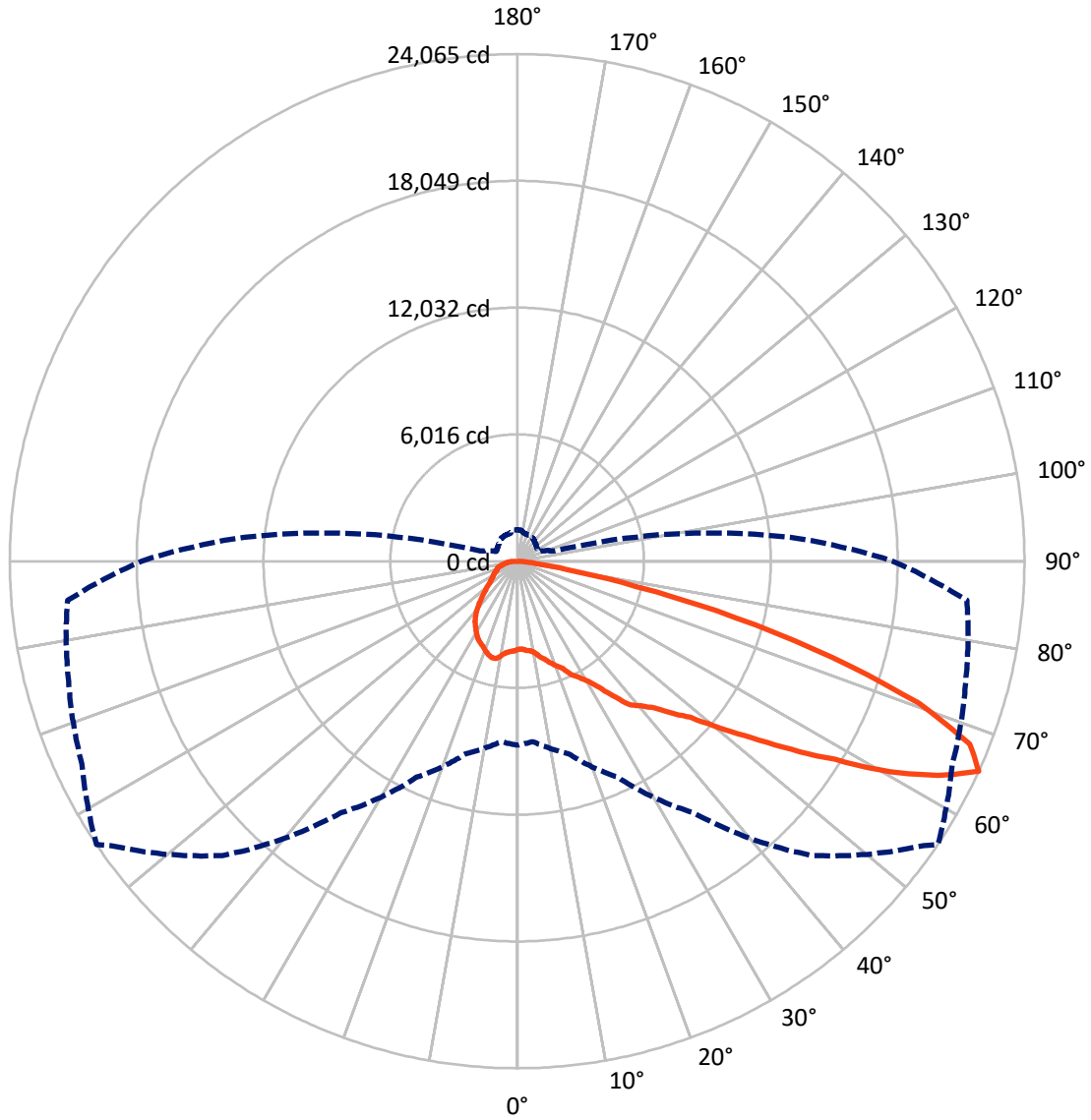
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.4 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	7824.9	0.0	7824.9
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	27065.8	0.0	27065.8
	% Fixture	77.6	0.0	77.6
Total	Lumens	34890.7	0.0	34890.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	415.0	1.2
10°-20°	1347.6	3.9
20°-30°	2399.4	6.9
30°-40°	3593.1	10.3
40°-50°	5323.6	15.3
50°-60°	8202.9	23.5
60°-70°	9286.7	26.6
70°-80°	3854.1	11.0
80°-90°	468.2	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°	34890.7	100.0
0°-180°	34890.7	100.0

Coefficient of Utilization



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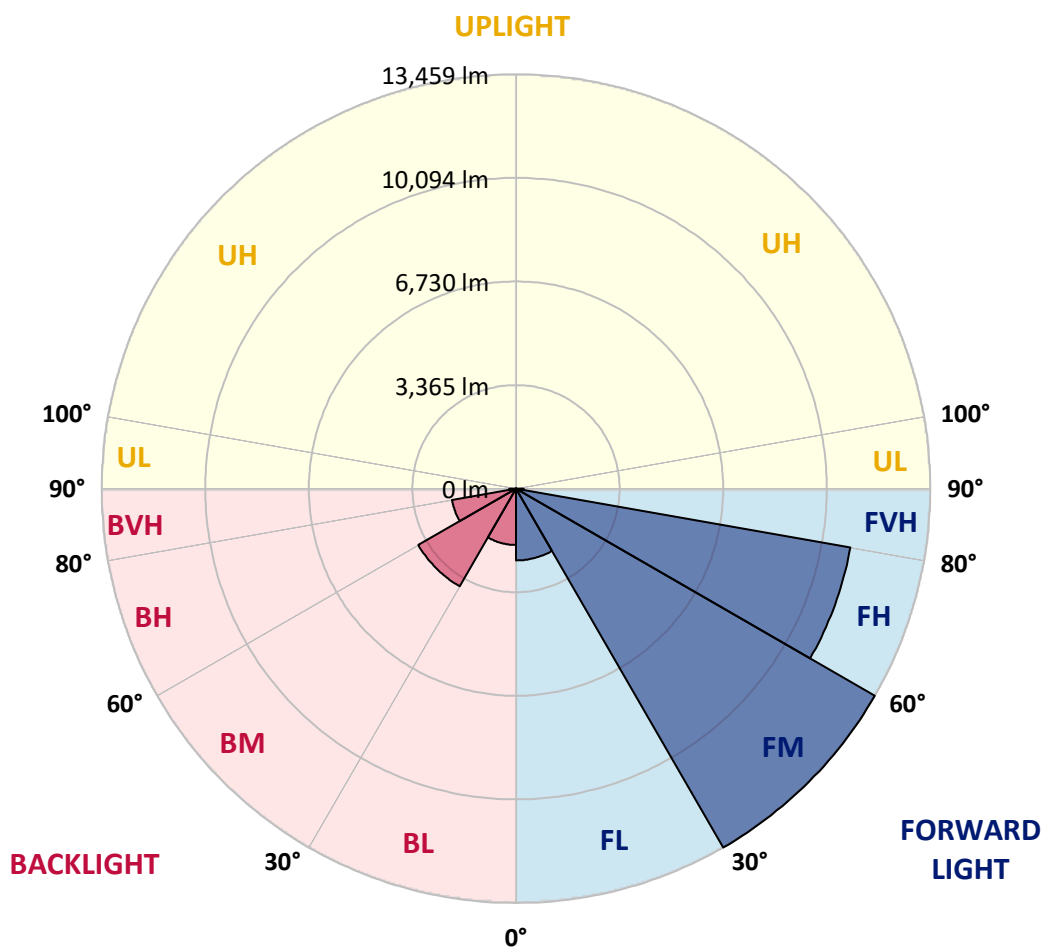
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2331.7	6.7			
FM (30°-60°)	13459.3	38.6			
FH (60°-80°)	11027.8	31.6			G4/12000
FVH (80°-90°)	247.0	0.7			G3/500
BL (0°-30°)	1830.3	5.2	B3/2500		
BM (30°-60°)	3660.3	10.5	B3/5000		
BH (60°-80°)	2113.0	6.1	B3/2500		G3/2500
BVH (80°-90°)	221.3	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°	4187.9	4187.9	4187.9	4187.9	4187.9	4187.9	4187.9	4187.9	4187.9	4187.9
2.5°	4078.3	4100.2	4085.6	4129.5	4166.0	4166.0	4195.2	4173.3	4202.5	4242.6
5°	4213.4	4125.8	4173.3	4195.2	4184.2	4202.5	4173.3	4246.3	4198.8	4275.5
7.5°	4246.3	4279.2	4319.3	4282.8	4315.7	4297.4	4301.1	4290.1	4264.6	4326.6
10°	4487.3	4439.8	4531.1	4476.3	4469.0	4461.7	4447.1	4392.3	4454.4	4458.1
12.5°	4764.8	4720.9	4717.3	4673.5	4731.9	4626.0	4647.9	4618.7	4629.7	4644.3
15°	4965.6	4947.3	5031.3	4980.2	4903.5	4856.0	4907.2	4826.8	4867.0	4859.7
17.5°	5363.5	5359.9	5297.8	5213.9	5170.0	5100.7	5089.7	5056.9	5086.1	5071.5
20°	5641.0	5681.2	5692.2	5593.6	5425.6	5348.9	5330.7	5305.1	5338.0	5327.0
22.5°	6064.6	6002.5	6050.0	5878.4	5816.3	5633.7	5568.0	5531.5	5688.5	5648.3
25°	6334.8	6400.5	6353.0	6294.6	6155.9	5929.5	5882.0	5962.3	6024.4	5980.6
27.5°	6944.5	6878.8	6835.0	6659.7	6568.4	6331.1	6276.3	6247.1	6261.7	6287.3
30°	7408.2	7444.7	7346.1	7222.0	6992.0	6751.0	6623.2	6597.6	6546.5	6502.7
32.5°	8069.1	8014.3	7955.9	7875.5	7678.4	7360.7	7236.6	7141.7	6988.3	6783.8
35°	8386.7	8543.7	8499.9	8284.5	8134.8	8014.3	7977.8	7831.7	7703.9	7382.6
37.5°	8916.1	8981.8	8919.8	8850.4	8781.0	8653.2	8609.4	8649.6	8397.7	7868.2
40°	9259.3	9398.1	9525.9	9332.4	9317.8	9343.3	9073.1	9025.7	8507.2	8229.7
42.5°	9960.4	10018.8	10044.3	10037.0	10121.0	10121.0	9606.2	9504.0	9135.2	8908.8
45°	10887.7	10935.2	11026.5	11092.2	10997.3	11044.7	10310.9	10270.7	9942.1	9898.3
47.5°	11691.0	11804.2	12008.7	12202.2	12326.3	12165.7	11362.4	11077.6	10993.6	11256.5
50°	12392.0	12256.9	12735.2	12932.4	13476.4	13743.0	12523.5	12410.3	12275.2	12779.0
52.5°	12461.4	12644.0	13319.4	13713.7	14834.7	15327.6	13947.4	13900.0	13735.7	14316.2
55°	12958.0	12936.0	13615.2	14469.5	15802.2	16631.0	15802.2	15773.0	15415.2	15966.5
57.5°	12874.0	13096.7	13633.4	14827.3	16674.8	18029.4	17952.7	17751.9	17251.7	17700.8
60°	12589.2	12647.6	13301.2	14816.4	17182.3	19464.3	20274.9	20315.0	19292.7	19650.5
62.5°	10975.4	11110.5	11939.3	13651.7	16820.9	20453.8	22542.2	22399.8	21582.0	21173.1
65°	8729.9	8594.8	9456.5	11307.6	14571.8	19752.8	23535.4	24064.8	22779.6	22031.1
67.5°	5352.6	5319.7	6148.5	7780.6	10902.4	16809.9	22743.1	23155.6	22447.3	21848.5
70°	2756.6	2672.6	3191.1	4341.2	6853.2	12333.6	19792.9	20198.2	20873.7	19595.8
72.5°	1285.2	1267.0	1544.4	2135.9	3490.5	7251.2	15327.6	15619.6	17043.6	16521.5
75°	755.8	766.7	923.7	1117.3	1701.4	3417.5	10172.1	10738.1	12282.5	11906.4
77.5°	565.9	565.9	657.2	777.7	993.1	1321.7	5020.3	5768.8	7181.8	6458.9
80°	416.2	423.5	503.9	584.2	690.1	682.8	1993.5	2336.7	3293.3	2815.0
82.5°	325.0	335.9	390.7	434.5	485.6	412.6	817.9	879.9	1354.6	1077.1
85°	226.4	233.7	306.7	295.7	295.7	230.0	339.6	357.8	536.7	511.2
87.5°	54.8	62.1	149.7	164.3	124.1	69.4	105.9	120.5	193.5	222.7
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°
4187.9	0°	4187.9	4187.9	4187.9	4187.9	4187.9	4187.9	4187.9	4187.9	4187.9	4187.9
4260.9	2.5°	4206.1	4220.7	4282.8	4249.9	4268.2	4191.5	4253.6	4202.5	4246.3	4224.4
4293.8	5°	4323.0	4290.1	4326.6	4301.1	4301.1	4330.3	4374.1	4341.2	4406.9	4377.7
4319.3	7.5°	4370.4	4374.1	4396.0	4399.6	4381.4	4472.7	4476.3	4465.4	4527.4	4512.8
4494.6	10°	4487.3	4490.9	4531.1	4553.0	4534.7	4567.6	4531.1	4501.9	4498.2	4483.6
4633.3	12.5°	4673.5	4710.0	4702.7	4720.9	4724.6	4585.9	4501.9	4359.5	4341.2	4359.5
4837.8	15°	4845.1	4830.5	4837.8	4874.3	4720.9	4498.2	4348.5	4228.0	4235.3	4239.0
5104.3	17.5°	5049.5	5060.5	5071.5	4903.5	4622.4	4359.5	4228.0	4228.0	4191.5	4206.1
5290.5	20°	5283.2	5239.4	5144.5	4907.2	4450.8	4198.8	4158.7	4158.7	4114.9	4085.6
5491.3	22.5°	5465.8	5378.2	5235.8	4794.0	4297.4	4136.8	4038.2	3968.8	3917.7	3859.3
5714.1	25°	5582.6	5535.2	5257.7	4677.1	4184.2	3972.5	3826.4	3720.5	3654.8	3578.1
5889.3	27.5°	5761.5	5670.2	5319.7	4542.0	4060.1	3808.2	3581.8	3417.5	3293.3	3213.0
6155.9	30°	6002.5	5871.1	5275.9	4348.5	3870.2	3523.4	3256.8	3045.1	2902.7	2836.9
6407.8	32.5°	6199.7	6028.1	5239.4	4173.3	3658.5	3234.9	2880.8	2665.3	2585.0	2501.0
6831.3	35°	6575.7	6236.2	5213.9	4074.7	3468.6	2946.5	2574.1	2387.9	2285.6	2161.5
7083.2	37.5°	6864.2	6597.6	5151.8	3870.2	3224.0	2665.3	2340.4	2172.4	2019.1	1887.6
7667.4	40°	7316.9	7101.5	5155.4	3581.8	2935.5	2424.4	2157.8	1982.6	1789.1	1675.9
8532.8	42.5°	8167.6	7598.1	5177.3	3351.8	2610.6	2227.2	1993.5	1785.4	1591.9	1497.0
9518.6	45°	9211.9	8280.8	5042.2	3143.6	2278.3	2041.0	1796.4	1588.3	1464.1	1394.7
10858.5	47.5°	10413.1	8949.0	4859.7	2753.0	2000.8	1843.8	1613.8	1493.3	1402.0	1361.9
12585.5	50°	11756.7	9905.6	4808.6	2395.2	1785.4	1675.9	1526.2	1434.9	1372.8	1325.4
14531.6	52.5°	13487.4	11019.2	4706.3	2026.4	1599.2	1540.8	1493.3	1431.3	1376.5	1336.3
16346.2	55°	15141.3	12253.3	4596.8	1723.3	1467.8	1475.1	1500.6	1445.9	1398.4	1336.3
18379.9	57.5°	17003.4	13512.9	4191.5	1500.6	1369.2	1442.2	1493.3	1431.3	1383.8	1336.3
20461.1	60°	18153.6	14221.3	3399.2	1307.1	1281.6	1380.1	1449.5	1383.8	1332.7	1350.9
21417.7	62.5°	18620.9	13848.8	2563.1	1186.6	1219.5	1296.2	1380.1	1354.6	1318.1	1387.4
21406.7	65°	17824.9	12990.8	1832.9	1084.4	1135.5	1212.2	1318.1	1347.3	1358.2	1493.3
19661.5	67.5°	15860.6	11311.3	1347.3	1000.4	1047.9	1161.1	1361.9	1409.3	1402.0	1570.0
16499.6	70°	12691.4	8846.8	1051.5	931.0	1015.0	1201.2	1424.0	1424.0	1372.8	1570.0
12585.5	72.5°	9233.8	6236.2	905.5	850.7	931.0	1102.6	1416.6	1413.0	1347.3	1434.9
8014.3	75°	5589.9	3629.2	799.6	770.4	799.6	945.6	1354.6	1332.7	1241.4	1234.1
3855.6	77.5°	2785.8	1825.6	653.6	682.8	697.4	792.3	1190.3	1223.1	1099.0	1069.8
1522.5	80°	1175.7	796.0	544.0	587.8	587.8	668.2	989.5	1011.4	912.8	858.0
602.4	82.5°	536.7	456.4	463.7	511.2	478.3	518.5	785.0	810.6	741.2	649.9
255.6	85°	226.4	259.2	354.2	401.6	354.2	335.9	540.4	569.6	482.0	401.6
109.5	87.5°	102.2	142.4	222.7	292.1	178.9	157.0	288.4	299.4	241.0	178.9
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>
4187.9
4184.2
4337.6
4490.9
4483.6
4366.8
4290.1
4209.8
4041.8
3826.4
3592.7
3249.5
2873.5
2497.4
2150.5
1891.3
1686.8
1504.3
1409.3
1354.6
1332.7
1332.7
1332.7
1332.7
1336.3
1369.2
1493.3
1581.0
1537.1
1383.8
1219.5
1051.5
839.8
635.3
405.3
168.0
0.0

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