

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: P477946

Luminaire Tested: **IFLD-M-SA4E-830-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477946
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-830-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

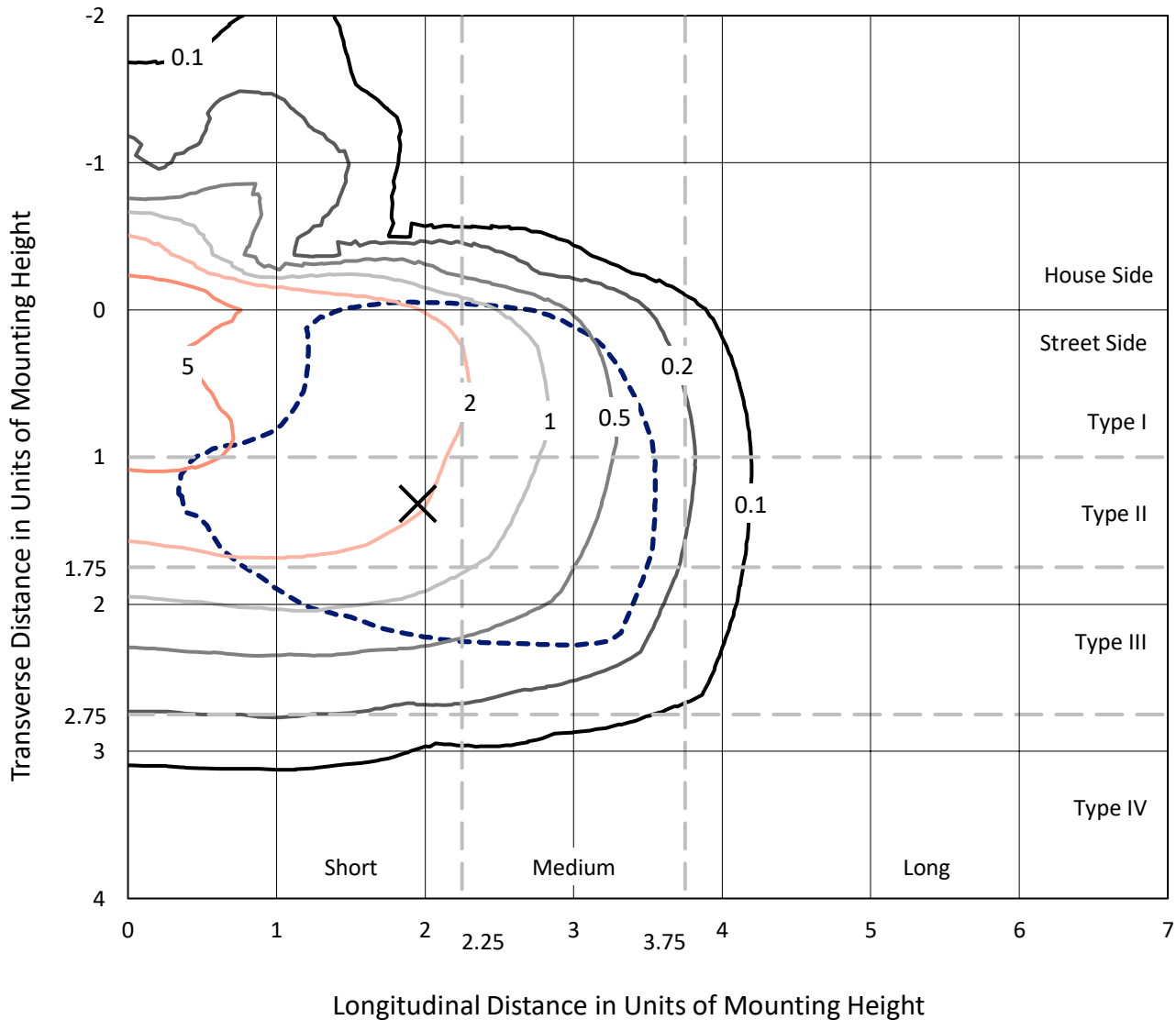
Lumens per Lamp: N/A
Luminaire Lumens: 28258.9 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 314.8
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

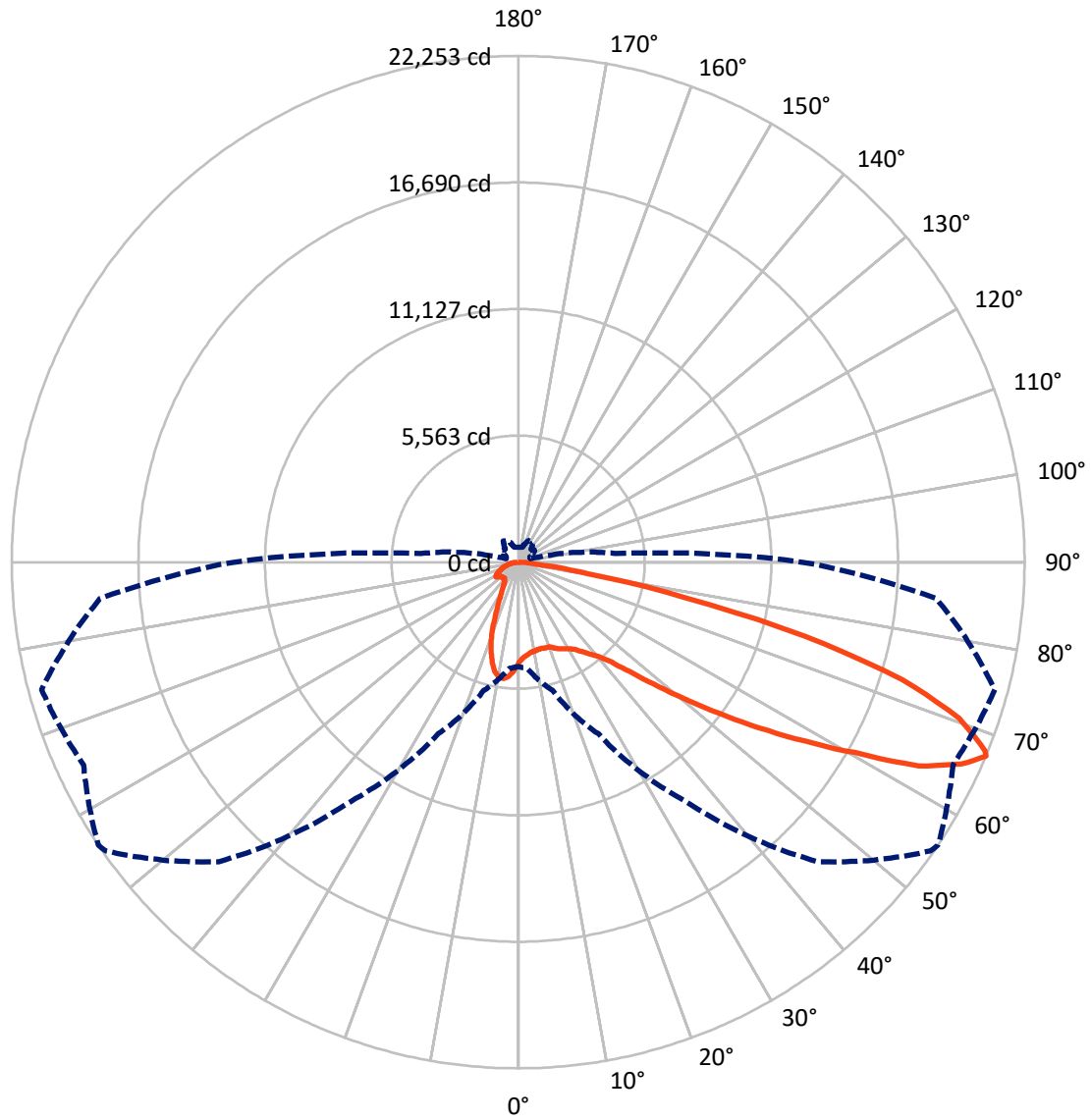
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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	4473.7	0.0	4473.7
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	23785.2	0.0	23785.2
	% Fixture	84.2	0.0	84.2
Total	Lumens	28258.9	0.0	28258.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.6	1.5
10°-20°	1155.6	4.1
20°-30°	1812.4	6.4
30°-40°	2587.2	9.2
40°-50°	3904.8	13.8
50°-60°	6215.7	22.0
60°-70°	7946.3	28.1
70°-80°	3874.4	13.7
80°-90°	338.9	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°	28258.9	100.0
0°-180°	28258.9	100.0

Coefficient of Utilization

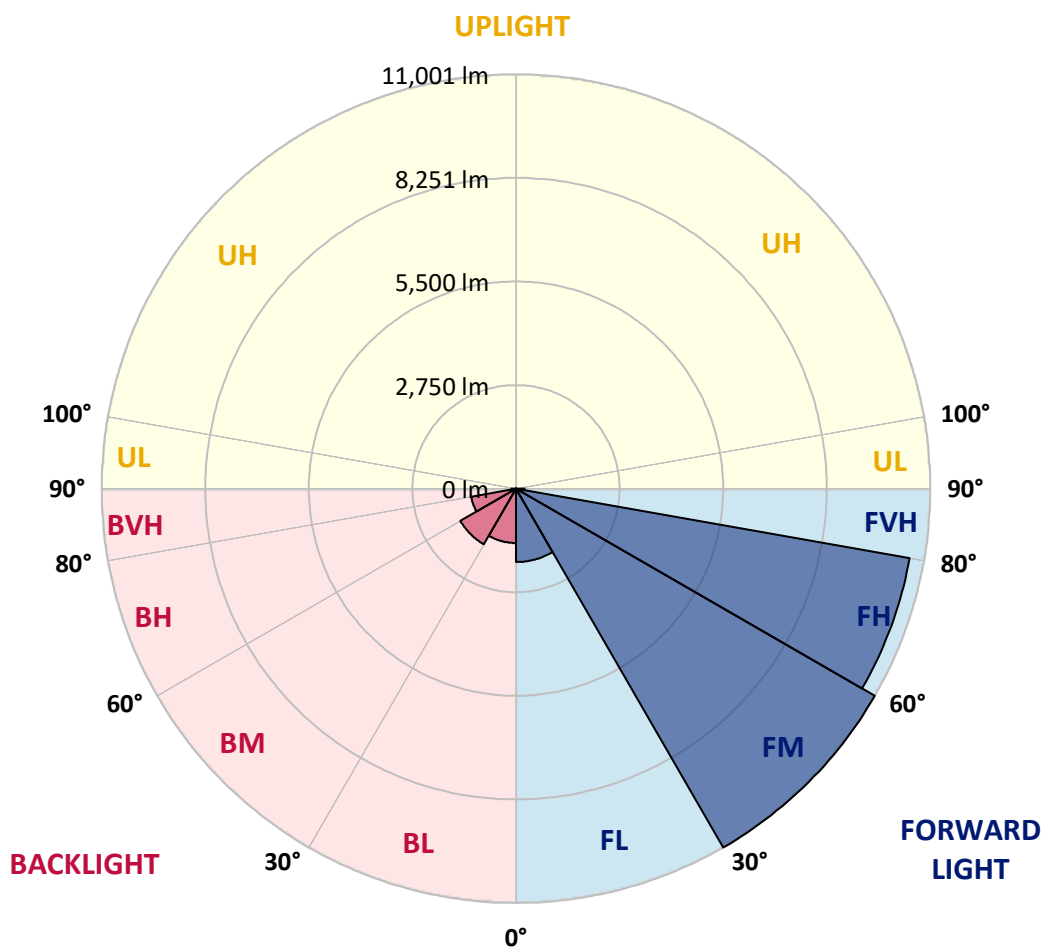


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1947.4	6.9			
FM (30°-60°)	11000.9	38.9			
FH (60°-80°)	10611.8	37.6			G4/12000
FVH (80°-90°)	225.1	0.8			G3/500
BL (0°-30°)	1444.2	5.1	B3/2500		
BM (30°-60°)	1706.7	6.0	B2/2500		
BH (60°-80°)	1208.9	4.3	B3/2500		G3/2500
BVH (80°-90°)	113.8	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°	4397.0	4397.0	4397.0	4397.0	4397.0	4397.0	4397.0	4397.0	4397.0	4397.0
2.5°	4039.1	4022.6	4042.5	4022.6	4112.0	4165.1	4181.6	4204.8	4287.7	4367.2
5°	3870.2	3797.3	3876.8	3903.3	3909.9	3999.4	4092.2	4108.7	4151.8	4281.0
7.5°	3588.5	3671.4	3641.5	3721.1	3803.9	3893.4	4045.8	4002.7	4161.7	4284.3
10°	3528.9	3535.5	3568.6	3598.5	3671.4	3787.3	3999.4	3972.9	4135.2	4397.0
12.5°	3588.5	3588.5	3578.6	3555.4	3638.2	3750.9	3919.9	3933.1	4188.3	4430.1
15°	3797.3	3837.0	3731.0	3747.6	3714.4	3750.9	3900.0	3929.8	4208.1	4456.6
17.5°	4307.5	4294.3	4168.4	3992.8	3847.0	3823.8	3926.5	3959.6	4188.3	4532.9
20°	4804.6	4778.1	4559.4	4377.1	4088.9	3953.0	3969.6	3972.9	4221.4	4582.6
22.5°	5357.9	5427.5	5188.9	4817.8	4460.0	4122.0	4055.7	4108.7	4297.6	4609.1
25°	6226.1	6076.9	5871.5	5384.4	4807.9	4383.8	4198.2	4224.7	4370.5	4675.3
27.5°	6852.3	6792.7	6471.3	6076.9	5295.0	4589.2	4274.4	4324.1	4503.0	4672.0
30°	7455.4	7455.4	7259.9	6670.1	5808.6	4933.8	4436.8	4413.6	4440.1	4665.4
32.5°	8161.1	8065.0	7783.4	7392.4	6454.7	5248.6	4566.0	4572.6	4572.6	4788.0
35°	8532.2	8688.0	8499.1	7862.9	6948.4	5772.1	4877.5	4827.8	4791.3	4923.9
37.5°	9075.7	9168.4	8969.6	8595.2	7561.4	6196.2	5152.5	5112.7	4900.7	5029.9
40°	9403.7	9387.1	9380.5	9208.2	8373.2	6696.6	5556.7	5454.0	5169.1	5404.3
42.5°	9589.3	9556.1	9963.7	9857.6	9138.6	7432.2	6063.7	6007.4	5692.6	6070.3
45°	9798.0	10043.2	10377.9	10676.1	10029.9	8466.0	6921.9	6842.4	6560.7	7041.2
47.5°	9980.2	10281.8	10709.2	11027.3	10835.1	9589.3	7982.2	8002.1	7816.5	8310.2
50°	10285.1	10314.9	10894.8	11537.6	11686.7	10626.4	9407.0	9373.9	9291.0	9983.6
52.5°	10192.3	10281.8	11014.1	11835.8	12081.0	11723.1	10937.8	11037.2	10927.9	11799.4
55°	8681.4	8949.7	10941.2	12150.6	13015.4	12962.4	12906.1	12839.8	12833.2	13840.5
57.5°	7995.5	8214.2	9639.0	12498.5	14016.1	14407.1	14771.6	14844.5	14841.1	16057.2
60°	7544.8	7770.1	9112.1	12309.6	14867.6	16299.1	16998.2	17008.2	16988.3	18426.3
62.5°	6663.4	6882.1	8200.9	11275.8	15102.9	18045.3	19602.6	19731.9	18820.6	20467.5
65°	5603.1	5782.0	6945.1	9695.3	14476.7	19155.3	21560.9	21408.5	20364.7	21633.8
67°	4582.6	4701.8	5835.1	8323.5	12839.8	18621.8	22127.5	22253.4	21077.1	21683.5
67.5°	4291.0	4400.3	5470.6	7856.3	12216.9	18217.6	22147.4	22127.5	21090.4	21693.4
70°	2978.8	3025.2	3727.7	5404.3	8999.5	15391.2	20530.4	20576.8	20205.7	20517.2
72.5°	1974.8	2044.4	2491.7	3406.3	5304.9	11199.6	17160.6	17657.6	17422.4	16822.6
75°	1272.4	1312.1	1630.2	2027.9	2611.0	6378.5	12677.4	13008.8	12468.7	10404.4
77.5°	712.4	755.5	984.1	1232.6	1272.4	2654.1	7120.7	7531.6	6381.8	4420.2
80°	444.0	500.3	742.2	732.3	606.4	974.2	2935.8	3144.5	2551.4	1520.9
82.5°	334.7	377.7	573.2	513.6	341.3	434.1	1100.1	1179.6	934.4	586.5
85°	228.6	288.3	414.2	318.1	178.9	208.8	437.4	470.5	427.4	285.0
87.5°	82.8	122.6	215.4	159.0	79.5	63.0	142.5	159.0	152.4	129.2
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°
4397.0	0°	4397.0	4397.0	4397.0	4397.0	4397.0	4397.0	4397.0	4397.0	4397.0	4397.0
4436.8	2.5°	4499.7	4546.1	4569.3	4705.2	4761.5	4751.6	4764.8	4784.7	4804.6	4831.1
4493.1	5°	4536.2	4678.7	4754.9	4913.9	5019.9	4973.6	5033.2	5016.6	4993.4	4990.1
4595.8	7.5°	4655.5	4837.7	5066.3	5109.4	5155.8	5039.8	4940.4	4804.6	4771.4	4655.5
4682.0	10°	4867.5	5016.6	5295.0	5311.5	5106.1	4807.9	4585.9	4304.2	4300.9	4131.9
4814.5	12.5°	5069.6	5238.6	5464.0	5367.9	4877.5	4469.9	4108.7	3800.6	3671.4	3585.2
4894.0	15°	5195.6	5473.9	5593.2	5179.0	4476.5	3926.5	3459.3	3127.9	2995.4	2932.4
4993.4	17.5°	5311.5	5699.2	5646.2	4847.6	3982.8	3366.5	2809.8	2521.6	2485.1	2438.7
5152.5	20°	5470.6	5782.0	5457.3	4416.9	3422.8	2644.2	2289.6	2150.5	2183.6	2203.5
5169.1	22.5°	5619.7	5825.1	5218.8	3946.4	2703.8	2094.1	1918.5	1948.3	1998.0	2064.3
5208.8	25°	5686.0	5894.7	4897.3	3296.9	2057.7	1762.8	1723.0	1772.7	1855.6	1858.9
5265.1	27.5°	5729.0	5845.0	4509.7	2664.0	1626.9	1540.8	1600.4	1636.9	1646.8	1686.6
5384.4	30°	5805.2	5742.3	4019.3	1905.3	1365.2	1368.5	1444.7	1444.7	1444.7	1474.5
5503.7	32.5°	5937.8	5672.7	3446.0	1391.7	1176.3	1282.3	1262.4	1255.8	1242.6	1206.1
5656.1	35°	6020.6	5483.8	2720.4	1030.5	1057.0	1176.3	1169.7	1066.9	894.6	808.5
6043.8	37.5°	6192.9	5387.7	2001.4	795.2	987.4	1123.3	1086.8	838.3	649.4	566.6
6524.3	40°	6564.0	5324.8	1385.0	695.8	941.0	1096.8	970.9	715.7	497.0	351.2
7266.5	42.5°	7018.0	5328.1	941.0	656.1	944.3	1153.1	934.4	613.0	351.2	281.6
8257.2	45°	7627.7	5278.4	646.1	656.1	1004.0	1245.9	957.6	556.7	341.3	357.9
9499.8	47.5°	8283.7	5321.5	480.5	596.4	1013.9	1249.2	874.8	546.7	328.0	414.2
10851.7	50°	9049.2	5364.5	397.6	550.0	1017.2	1209.4	805.2	533.5	341.3	437.4
12402.4	52.5°	9837.8	5500.4	338.0	520.2	1057.0	1192.9	805.2	553.4	341.3	381.1
14377.3	55°	11014.1	5848.3	487.1	649.4	1202.8	1302.2	990.7	775.4	477.1	490.4
16269.3	57.5°	12312.9	6206.2	543.4	682.6	1235.9	1173.0	1066.9	854.9	503.7	507.0
17740.4	60°	13167.8	6219.4	540.1	666.0	1156.4	1013.9	1043.8	901.3	513.6	434.1
18651.7	62.5°	13509.1	5815.2	563.3	666.0	1076.9	947.7	1070.3	970.9	530.2	543.4
18910.1	65°	13121.4	4980.2	543.4	596.4	947.7	848.3	1076.9	984.1	579.9	546.7
18446.2	67°	12515.1	4291.0	553.4	566.6	881.4	805.2	1133.2	1033.8	672.6	656.1
18204.3	67.5°	12342.8	4108.7	550.0	550.0	858.2	791.9	1146.5	1033.8	685.9	679.3
16067.1	70°	10878.2	3330.1	563.3	543.4	758.8	752.2	1219.4	1090.1	788.6	795.2
11802.7	72.5°	8280.4	2524.9	560.0	543.4	659.4	719.0	1229.3	1126.6	858.2	795.2
6610.4	75°	4705.2	1511.0	493.7	473.8	520.2	626.3	1149.8	1073.6	835.0	712.4
2640.9	77.5°	1945.0	778.7	453.9	427.4	430.8	510.3	957.6	1000.7	795.2	606.4
881.4	80°	725.7	467.2	364.5	341.3	331.3	374.4	682.6	798.6	679.3	497.0
387.7	82.5°	377.7	291.6	248.5	248.5	225.3	238.6	367.8	530.2	513.6	341.3
155.7	85°	192.2	165.7	142.5	139.2	125.9	112.7	185.6	314.8	294.9	188.9
69.6	87.5°	102.7	92.8	59.6	56.3	46.4	29.8	33.1	63.0	102.7	82.8
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>
4397.0
4857.6
5019.9
4695.2
4125.3
3565.3
2919.2
2461.9
2180.3
2027.9
1892.0
1723.0
1507.6
1186.2
848.3
563.3
341.3
275.0
364.5
460.6
507.0
391.0
516.9
490.4
447.3
550.0
536.8
646.1
666.0
735.6
705.8
636.2
573.2
453.9
268.4
155.7
59.6
0.0

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