

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: P477712

Luminaire Tested: **IFLD-M-SA4E-730-U-T3R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477712
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-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

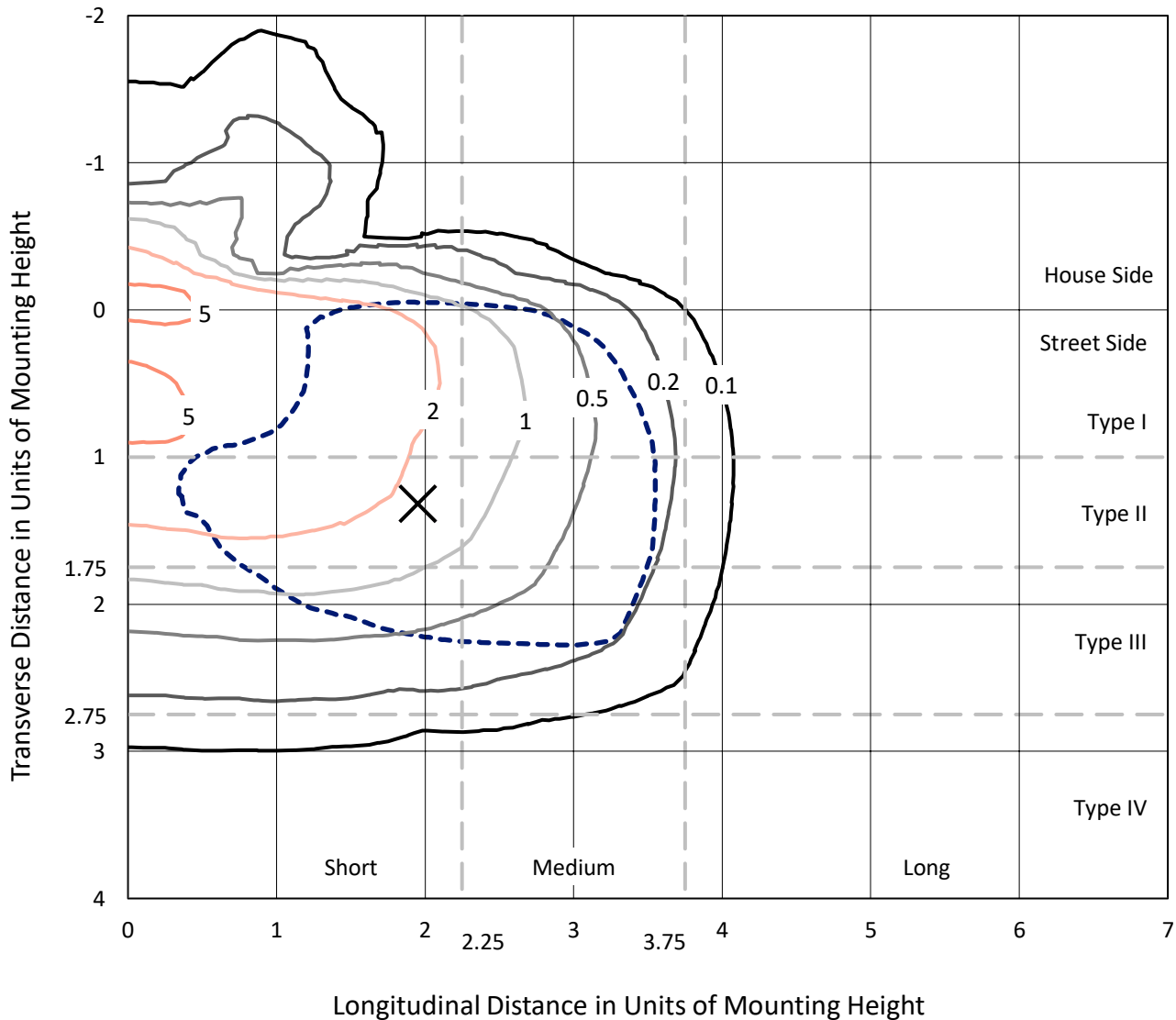
Lumens per Lamp: N/A
Luminaire Lumens: 32384.3 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

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

REPORT NUMBER: P477712
 CATALOG NUMBER: IFLD-M-SA4E-730-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

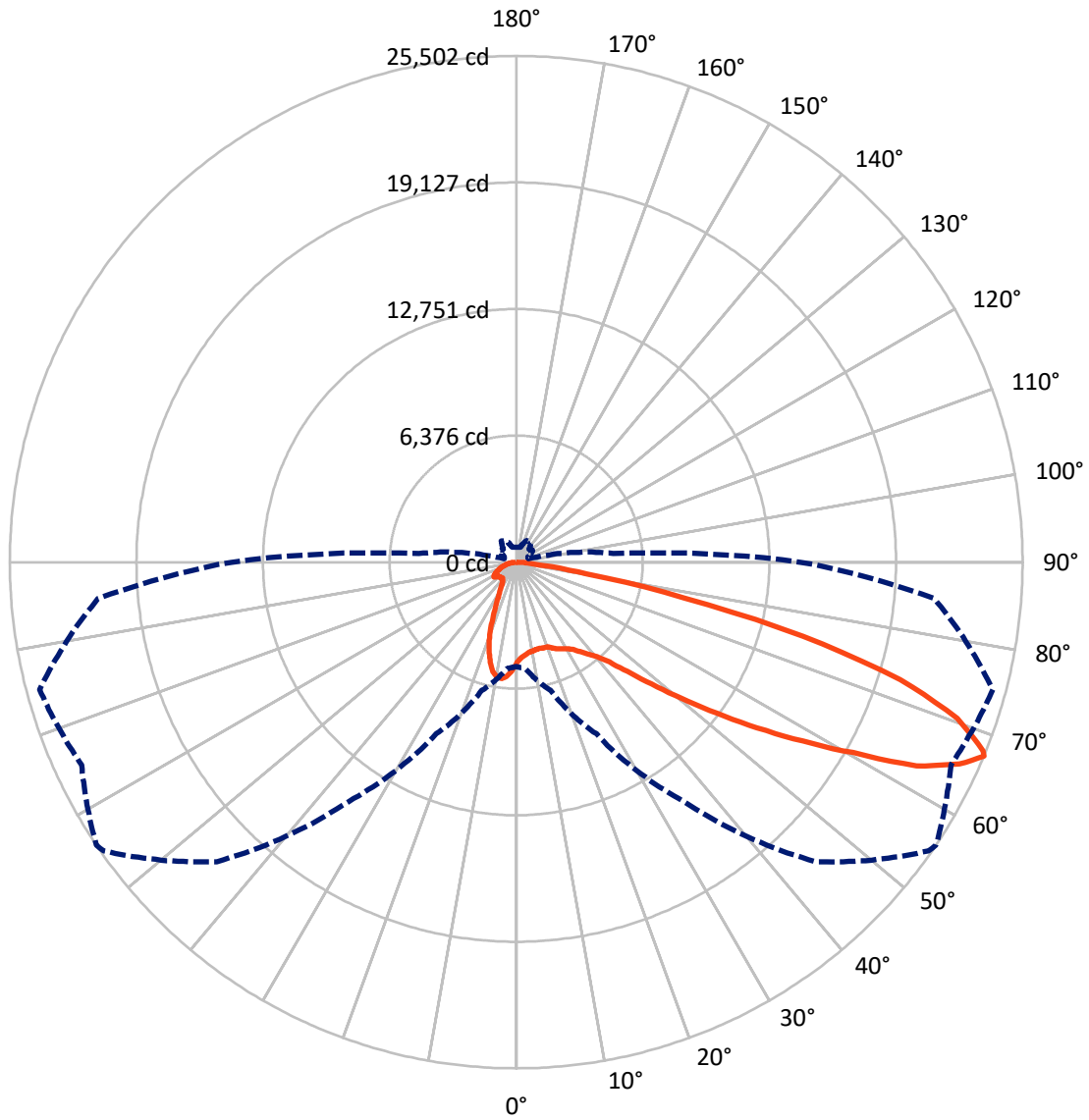
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.2 fc
 Type III - Short - N/A

REPORT NUMBER: P477712
CATALOG NUMBER: IFLD-M-SA4E-730-U-T3R

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	5126.8	0.0	5126.8
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	27257.5	0.0	27257.5
	% Fixture	84.2	0.0	84.2
Total	Lumens	32384.3	0.0	32384.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	485.4	1.5
10°-20°	1324.3	4.1
20°-30°	2076.9	6.4
30°-40°	2964.9	9.2
40°-50°	4474.8	13.8
50°-60°	7123.1	22.0
60°-70°	9106.4	28.1
70°-80°	4440.0	13.7
80°-90°	388.4	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°	32384.3	100.0
0°-180°	32384.3	100.0

Coefficient of Utilization



REPORT NUMBER: P477712

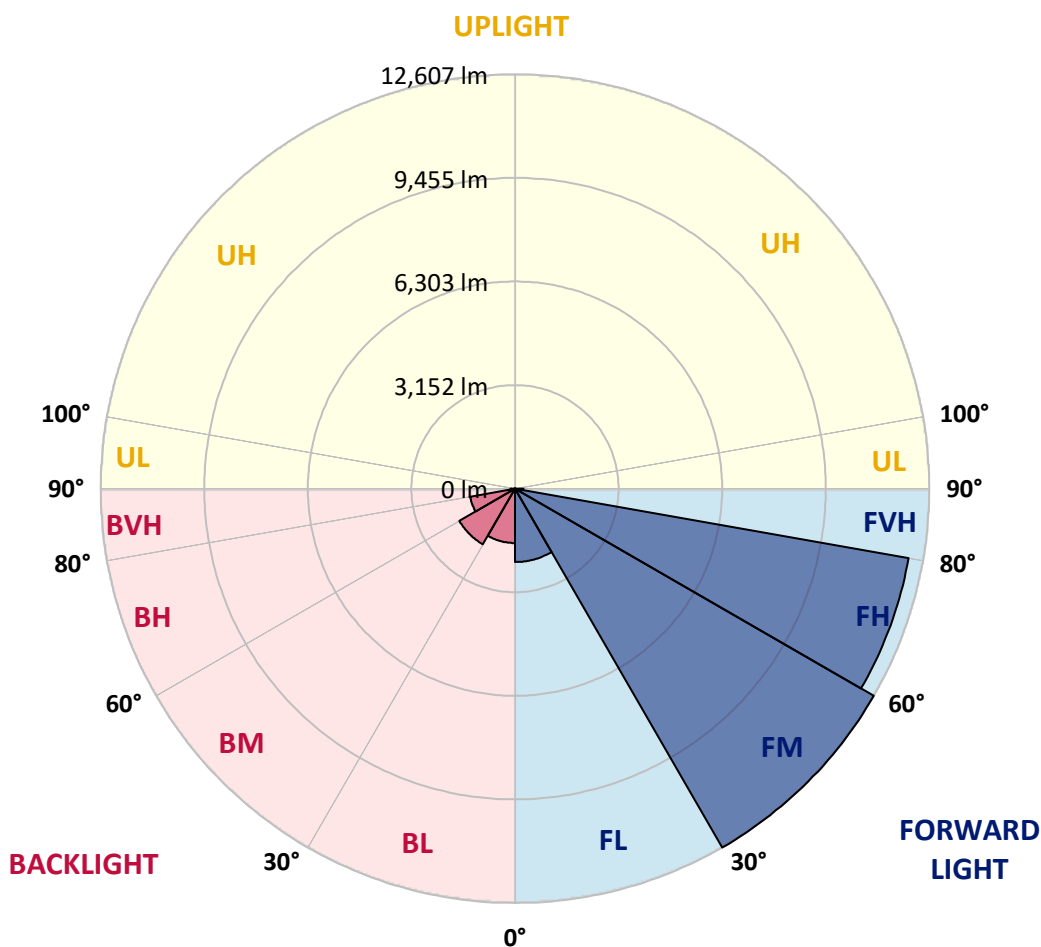
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2231.6	6.9			
FM (30°-60°)	12606.9	38.9			
FH (60°-80°)	12161.0	37.6			G5
FVH (80°-90°)	257.9	0.8			G3/500
BL (0°-30°)	1655.1	5.1	B3/2500		
BM (30°-60°)	1955.9	6.0	B2/2500		
BH (60°-80°)	1385.3	4.3	B3/2500		G3/2500
BVH (80°-90°)	130.5	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-G5

Type III Short





REPORT NUMBER: P477712
 CATALOG NUMBER: IFLD-M-SA4E-730-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	5038.9	5038.9	5038.9	5038.9	5038.9	5038.9	5038.9	5038.9	5038.9	5038.9
2.5°	4628.8	4609.8	4632.6	4609.8	4712.3	4773.1	4792.1	4818.7	4913.6	5004.7
5°	4435.1	4351.6	4442.7	4473.1	4480.7	4583.2	4689.6	4708.5	4757.9	4906.0
7.5°	4112.4	4207.3	4173.1	4264.3	4359.2	4461.7	4636.4	4587.0	4769.3	4909.8
10°	4044.0	4051.6	4089.6	4123.8	4207.3	4340.2	4583.2	4552.9	4738.9	5038.9
12.5°	4112.4	4112.4	4101.0	4074.4	4169.3	4298.4	4492.1	4507.3	4799.7	5076.9
15°	4351.6	4397.2	4275.7	4294.7	4256.7	4298.4	4469.3	4503.5	4822.5	5107.3
17.5°	4936.4	4921.2	4776.9	4575.6	4408.6	4382.0	4499.7	4537.7	4799.7	5194.6
20°	5506.0	5475.6	5225.0	5016.1	4685.8	4530.1	4549.1	4552.9	4837.7	5251.5
22.5°	6140.1	6219.8	5946.4	5521.2	5111.1	4723.7	4647.8	4708.5	4925.0	5281.9
25°	7135.0	6964.1	6728.7	6170.5	5509.8	5023.7	4811.1	4841.5	5008.5	5357.9
27.5°	7852.6	7784.3	7416.0	6964.1	6068.0	5259.1	4898.4	4955.4	5160.4	5354.1
30°	8543.7	8543.7	8319.7	7643.8	6656.5	5654.1	5084.5	5057.9	5088.3	5346.5
32.5°	9352.5	9242.4	8919.7	8471.6	7397.0	6014.8	5232.6	5240.2	5240.2	5487.0
35°	9777.8	9956.3	9739.9	9010.8	7962.8	6614.8	5589.5	5532.5	5490.8	5642.7
37.5°	10400.6	10506.9	10279.1	9850.0	8665.2	7100.8	5904.7	5859.1	5616.1	5764.2
40°	10776.5	10757.5	10749.9	10552.5	9595.6	7674.2	6367.9	6250.2	5923.7	6193.3
42.5°	10989.1	10951.2	11418.2	11296.7	10472.7	8517.2	6948.9	6884.4	6523.6	6956.5
45°	11228.4	11509.4	11892.9	12234.6	11494.2	9701.9	7932.4	7841.3	7518.5	8069.1
47.5°	11437.2	11782.8	12272.6	12637.1	12416.9	10989.1	9147.5	9170.3	8957.6	9523.4
50°	11786.6	11820.7	12485.2	13221.9	13392.8	12177.7	10780.3	10742.3	10647.4	11441.0
52.5°	11680.2	11782.8	12621.9	13563.7	13844.6	13434.6	12534.6	12648.5	12523.2	13521.9
55°	9948.7	10256.3	12538.4	13924.4	14915.5	14854.7	14790.2	14714.2	14706.6	15861.0
57.5°	9162.7	9413.3	11046.1	14323.1	16062.2	16510.3	16928.0	17011.5	17007.7	18401.3
60°	8646.3	8904.5	10442.3	14106.7	17038.1	18678.5	19479.7	19491.1	19468.3	21116.3
62.5°	7636.2	7886.8	9398.1	12921.9	17307.7	20679.6	22464.3	22612.4	21568.2	23455.4
65°	6421.1	6626.1	7959.0	11110.7	16590.0	21951.7	24708.5	24533.8	23337.7	24792.0
67°	5251.5	5388.2	6686.9	9538.6	14714.2	21340.4	25357.8	25502.1	24154.1	24849.0
67.5°	4917.4	5042.7	6269.2	9003.2	14000.3	20877.1	25380.6	25357.8	24169.3	24860.4
70°	3413.7	3466.9	4271.9	6193.3	10313.2	17638.1	23527.6	23580.7	23155.4	23512.4
72.5°	2263.1	2342.9	2855.5	3903.5	6079.3	12834.6	19665.8	20235.4	19965.8	19278.5
75°	1458.1	1503.7	1868.2	2323.9	2992.2	7309.6	14528.1	14907.9	14288.9	11923.3
77.5°	816.4	865.8	1127.8	1412.6	1458.1	3041.6	8160.2	8631.1	7313.4	5065.5
80°	508.8	573.4	850.6	839.2	694.9	1116.4	3364.3	3603.6	2923.9	1742.9
82.5°	383.5	432.9	656.9	588.6	391.1	497.4	1260.7	1351.8	1070.8	672.1
85°	262.0	330.4	474.7	364.5	205.0	239.2	501.2	539.2	489.8	326.6
87.5°	94.9	140.5	246.8	182.3	91.1	72.1	163.3	182.3	174.7	148.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P477712
 CATALOG NUMBER: IFLD-M-SA4E-730-U-T3R

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5038.9	0°	5038.9	5038.9	5038.9	5038.9	5038.9	5038.9	5038.9	5038.9	5038.9	5038.9
5084.5	2.5°	5156.6	5209.8	5236.4	5392.0	5456.6	5445.2	5460.4	5483.2	5506.0	5536.3
5149.0	5°	5198.4	5361.7	5449.0	5631.3	5752.8	5699.6	5768.0	5749.0	5722.4	5718.6
5266.7	7.5°	5335.1	5543.9	5805.9	5855.3	5908.5	5775.6	5661.6	5506.0	5468.0	5335.1
5365.5	10°	5578.1	5749.0	6068.0	6086.9	5851.5	5509.8	5255.3	4932.6	4928.8	4735.1
5517.4	12.5°	5809.7	6003.4	6261.6	6151.5	5589.5	5122.4	4708.5	4355.4	4207.3	4108.6
5608.5	15°	5954.0	6273.0	6409.7	5935.0	5130.0	4499.7	3964.3	3584.6	3432.7	3360.5
5722.4	17.5°	6086.9	6531.2	6470.5	5555.3	4564.3	3858.0	3220.0	2889.7	2847.9	2794.8
5904.7	20°	6269.2	6626.1	6254.0	5061.7	3922.5	3030.2	2623.9	2464.4	2502.4	2525.1
5923.7	22.5°	6440.1	6675.5	5980.6	4522.5	3098.5	2399.8	2198.6	2232.8	2289.7	2365.7
5969.2	25°	6516.0	6755.2	5612.3	3778.2	2358.1	2020.1	1974.6	2031.5	2126.4	2130.2
6033.8	27.5°	6565.4	6698.3	5168.0	3053.0	1864.4	1765.7	1834.1	1875.8	1887.2	1932.8
6170.5	30°	6652.7	6580.6	4606.0	2183.4	1564.5	1568.3	1655.6	1655.6	1655.6	1689.8
6307.2	32.5°	6804.6	6500.8	3949.1	1594.8	1348.0	1469.5	1446.7	1439.1	1424.0	1382.2
6481.8	35°	6899.5	6284.4	3117.5	1180.9	1211.3	1348.0	1340.4	1222.7	1025.2	926.5
6926.1	37.5°	7097.0	6174.3	2293.5	911.3	1131.6	1287.3	1245.5	960.7	744.3	649.3
7476.7	40°	7522.3	6102.1	1587.2	797.4	1078.4	1256.9	1112.6	820.2	569.6	402.5
8327.3	42.5°	8042.5	6105.9	1078.4	751.8	1082.2	1321.4	1070.8	702.5	402.5	322.8
9462.7	45°	8741.2	6049.0	740.5	751.8	1150.6	1427.8	1097.4	637.9	391.1	410.1
10886.6	47.5°	9493.0	6098.3	550.6	683.5	1161.9	1431.6	1002.5	626.5	375.9	474.7
12435.9	50°	10370.2	6147.7	455.7	630.3	1165.7	1386.0	922.7	611.4	391.1	501.2
14213.0	52.5°	11273.9	6303.4	387.3	596.2	1211.3	1367.0	922.7	634.1	391.1	436.7
16476.1	55°	12621.9	6702.1	558.2	744.3	1378.4	1492.3	1135.4	888.5	546.8	562.0
18644.3	57.5°	14110.5	7112.2	622.7	782.2	1416.4	1344.2	1222.7	979.7	577.2	581.0
20330.3	60°	15090.1	7127.4	618.9	763.2	1325.2	1161.9	1196.1	1032.8	588.6	497.4
21374.5	62.5°	15481.3	6664.1	645.5	763.2	1234.1	1086.0	1226.5	1112.6	607.6	622.7
21670.7	65°	15037.0	5707.2	622.7	683.5	1086.0	972.1	1234.1	1127.8	664.5	626.5
21139.1	67°	14342.1	4917.4	634.1	649.3	1010.1	922.7	1298.6	1184.7	770.8	751.8
20861.9	67.5°	14144.6	4708.5	630.3	630.3	983.5	907.5	1313.8	1184.7	786.0	778.4
18412.7	70°	12466.3	3816.2	645.5	622.7	869.6	862.0	1397.4	1249.3	903.7	911.3
13525.7	72.5°	9489.2	2893.5	641.7	622.7	755.6	824.0	1408.8	1291.1	983.5	911.3
7575.4	75°	5392.0	1731.5	565.8	543.0	596.2	717.7	1317.6	1230.3	956.9	816.4
3026.4	77.5°	2229.0	892.3	520.2	489.8	493.6	584.8	1097.4	1146.8	911.3	694.9
1010.1	80°	831.6	535.4	417.7	391.1	379.7	429.1	782.2	915.1	778.4	569.6
444.3	82.5°	432.9	334.2	284.8	284.8	258.2	273.4	421.5	607.6	588.6	391.1
178.5	85°	220.2	189.9	163.3	159.5	144.3	129.1	212.6	360.7	338.0	216.4
79.7	87.5°	117.7	106.3	68.3	64.6	53.2	34.2	38.0	72.1	117.7	94.9
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>
5038.9
5566.7
5752.8
5380.7
4727.5
4085.8
3345.3
2821.3
2498.6
2323.9
2168.2
1974.6
1727.7
1359.4
972.1
645.5
391.1
315.2
417.7
527.8
581.0
448.1
592.4
562.0
512.6
630.3
615.1
740.5
763.2
843.0
808.8
729.1
656.9
520.2
307.6
178.5
68.3
0.0

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