

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: P477321

Luminaire Tested: **IFLD-M-SA4D-730-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477321
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-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

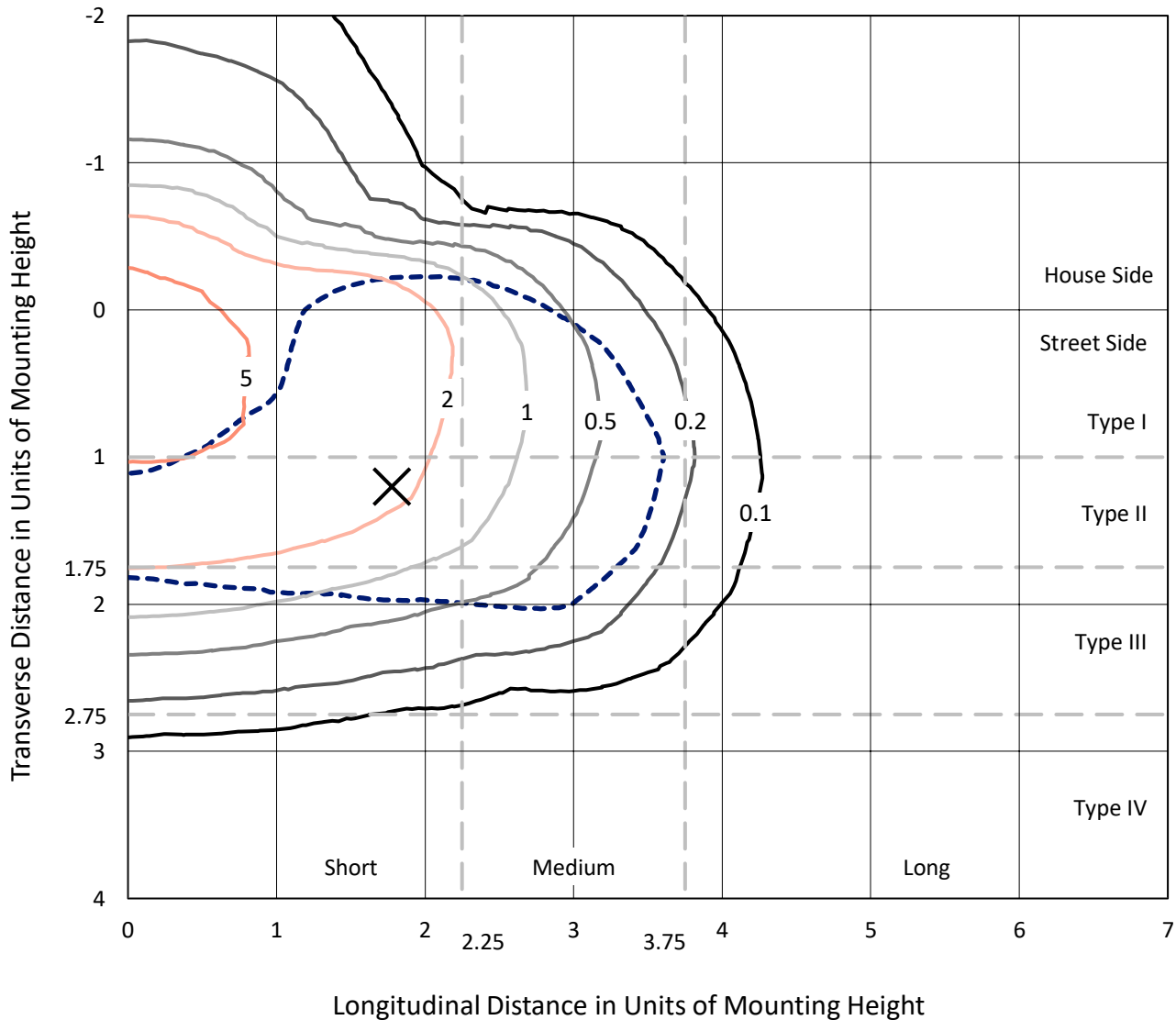
Lumens per Lamp: N/A
Luminaire Lumens: 29014.7 lumens
Efficiency: N/A
Efficacy: 116.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 249.7
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

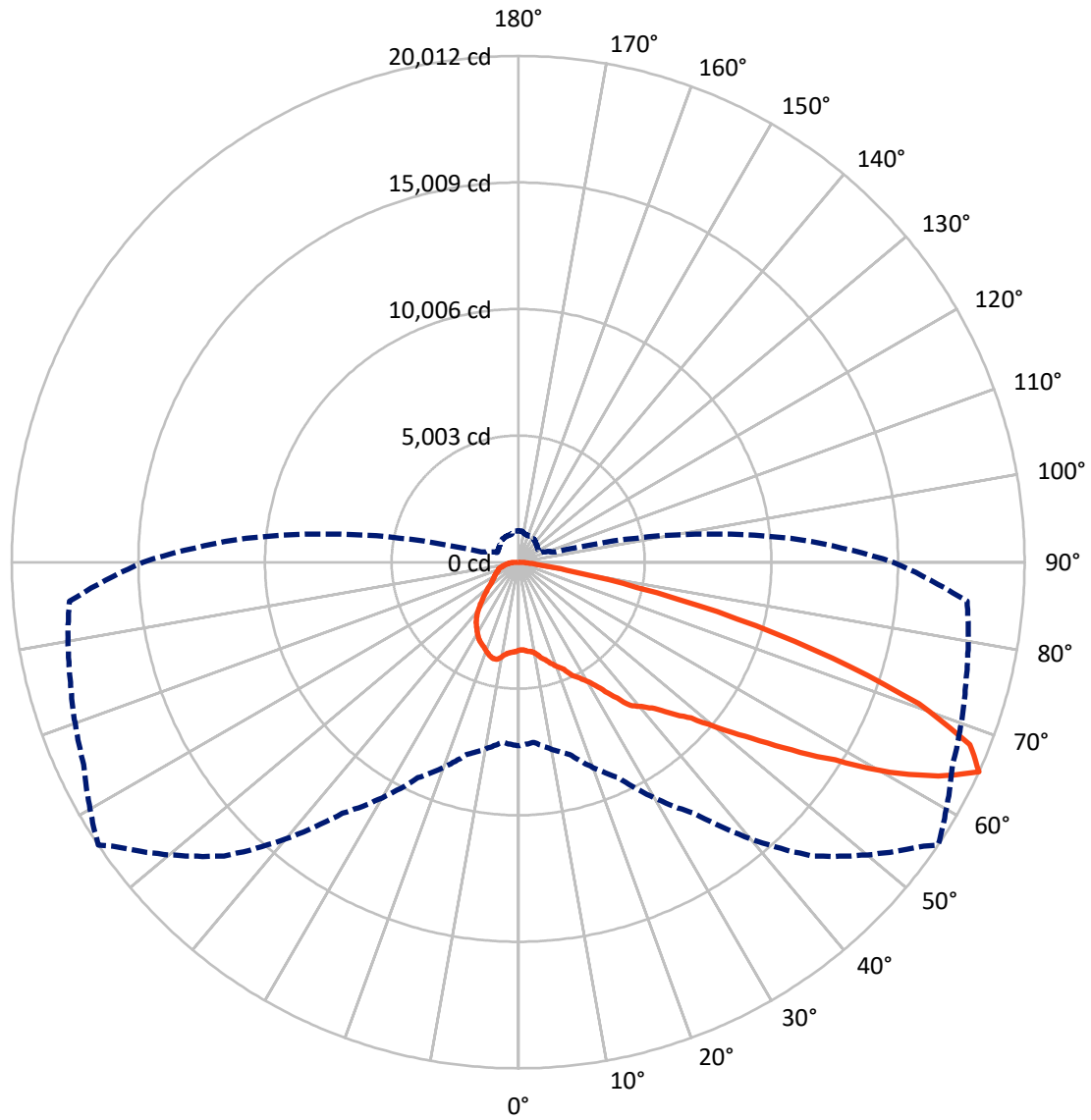
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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	6507.1	0.0	6507.1
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	22507.7	0.0	22507.7
	% Fixture	77.6	0.0	77.6
Total	Lumens	29014.7	0.0	29014.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.1	1.2
10°-20°	1120.6	3.9
20°-30°	1995.3	6.9
30°-40°	2988.0	10.3
40°-50°	4427.1	15.3
50°-60°	6821.5	23.5
60°-70°	7722.8	26.6
70°-80°	3205.0	11.0
80°-90°	389.4	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°	29014.7	100.0
0°-180°	29014.7	100.0

Coefficient of Utilization

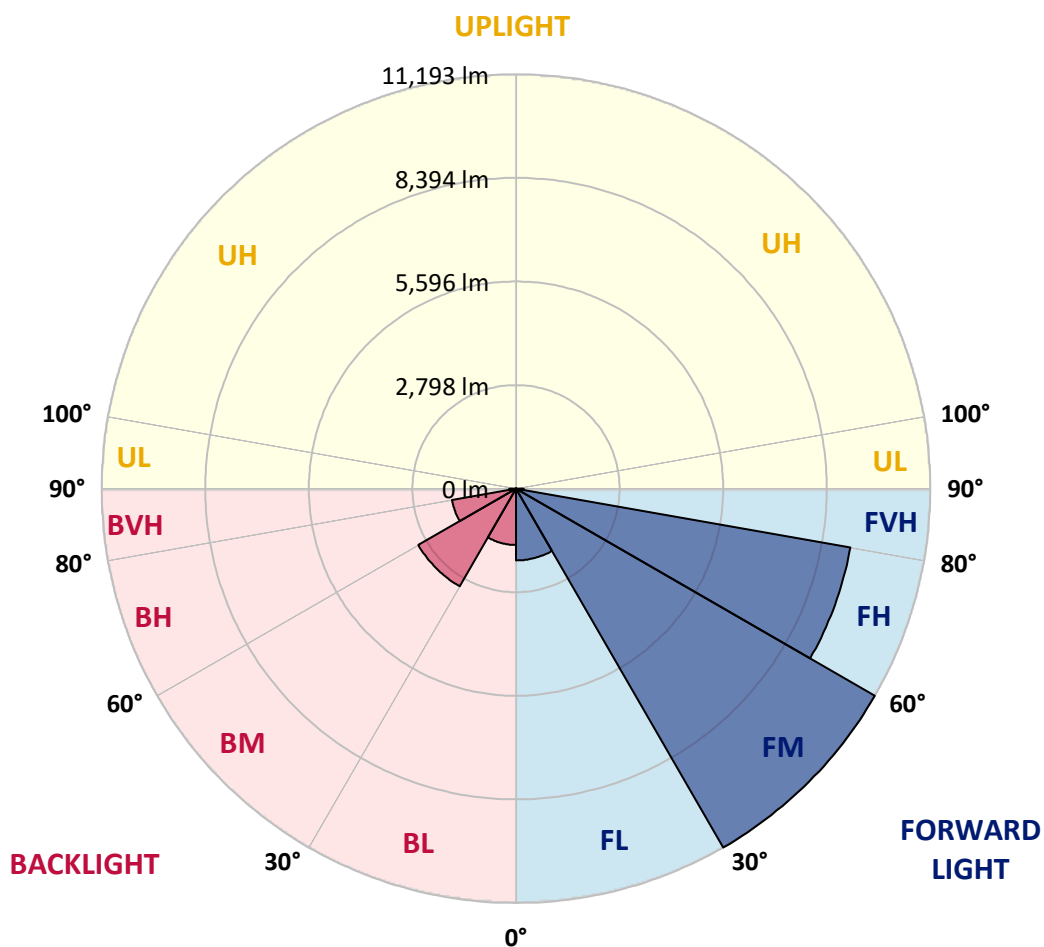


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1939.0	6.7			
FM (30°-60°)	11192.6	38.6			
FH (60°-80°)	9170.6	31.6			G4/12000
FVH (80°-90°)	205.4	0.7			G2/225
BL (0°-30°)	1522.1	5.2	B3/2500		
BM (30°-60°)	3043.9	10.5	B3/5000		
BH (60°-80°)	1757.1	6.1	B3/2500		G3/2500
BVH (80°-90°)	184.0	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°	3482.6	3482.6	3482.6	3482.6	3482.6	3482.6	3482.6	3482.6	3482.6	3482.6
2.5°	3391.5	3409.7	3397.6	3434.0	3464.4	3464.4	3488.7	3470.5	3494.7	3528.1
5°	3503.9	3431.0	3470.5	3488.7	3479.6	3494.7	3470.5	3531.2	3491.7	3555.5
7.5°	3531.2	3558.5	3591.9	3561.5	3588.9	3573.7	3576.7	3567.6	3546.4	3598.0
10°	3731.6	3692.1	3768.0	3722.5	3716.4	3710.3	3698.2	3652.6	3704.2	3707.3
12.5°	3962.3	3925.9	3922.9	3886.4	3935.0	3846.9	3865.2	3840.9	3850.0	3862.1
15°	4129.3	4114.1	4184.0	4141.5	4077.7	4038.2	4080.7	4013.9	4047.3	4041.3
17.5°	4460.3	4457.2	4405.6	4335.8	4299.4	4241.7	4232.6	4205.2	4229.5	4217.4
20°	4691.0	4724.4	4733.5	4651.6	4511.9	4448.1	4432.9	4411.7	4439.0	4429.9
22.5°	5043.2	4991.6	5031.1	4888.4	4836.8	4685.0	4630.3	4599.9	4730.5	4697.1
25°	5267.9	5322.6	5283.1	5234.5	5119.1	4930.9	4891.4	4958.2	5009.8	4973.4
27.5°	5775.0	5720.3	5683.9	5538.1	5462.2	5264.9	5219.3	5195.1	5207.2	5228.4
30°	6160.6	6190.9	6109.0	6005.7	5814.4	5614.1	5507.8	5486.5	5444.0	5407.6
32.5°	6710.1	6664.6	6616.0	6549.2	6385.3	6121.1	6017.9	5938.9	5811.4	5641.4
35°	6974.3	7104.9	7068.4	6889.3	6764.8	6664.6	6634.2	6512.8	6406.5	6139.3
37.5°	7414.6	7469.2	7417.6	7359.9	7302.2	7195.9	7159.5	7192.9	6983.4	6543.2
40°	7700.0	7815.3	7921.6	7760.7	7748.5	7769.8	7545.1	7505.6	7074.5	6843.7
42.5°	8282.9	8331.5	8352.8	8346.7	8416.5	8416.5	7988.4	7903.4	7596.7	7408.5
45°	9054.1	9093.6	9169.5	9224.2	9145.2	9184.7	8574.4	8541.0	8267.8	8231.3
47.5°	9722.1	9816.2	9986.3	10147.2	10250.4	10116.8	9448.9	9212.0	9142.2	9360.8
50°	10305.1	10192.7	10590.5	10754.5	11206.9	11428.5	10414.4	10320.3	10207.9	10626.9
52.5°	10362.8	10514.6	11076.3	11404.2	12336.3	12746.2	11598.5	11559.1	11422.4	11905.2
55°	10775.7	10757.5	11322.2	12032.7	13141.0	13830.2	13141.0	13116.7	12819.1	13277.6
57.5°	10705.9	10891.1	11337.4	12330.3	13866.6	14993.1	14929.3	14762.3	14346.4	14719.8
60°	10469.0	10517.6	11061.1	12321.2	14288.7	16186.3	16860.4	16893.8	16043.6	16341.2
62.5°	9127.0	9239.4	9928.6	11352.6	13988.1	17009.2	18745.9	18627.5	17947.4	17607.3
65°	7259.7	7147.4	7863.9	9403.3	12117.7	16426.2	19571.8	20012.0	18943.3	18320.8
67.5°	4451.2	4423.8	5113.1	6470.3	9066.3	13979.0	18912.9	19256.0	18667.0	18169.0
70°	2292.4	2222.5	2653.7	3610.1	5699.1	10256.5	16459.6	16796.6	17358.3	16295.6
72.5°	1068.8	1053.6	1284.3	1776.2	2902.7	6030.0	12746.2	12989.1	14173.3	13739.1
75°	628.5	637.6	768.2	929.1	1414.9	2841.9	8459.0	8929.7	10214.0	9901.3
77.5°	470.6	470.6	546.5	646.7	825.9	1099.1	4174.9	4797.3	5972.3	5371.2
80°	346.1	352.2	419.0	485.8	573.9	567.8	1657.8	1943.2	2738.7	2341.0
82.5°	270.2	279.3	324.9	361.3	403.8	343.1	680.1	731.7	1126.5	895.7
85°	188.2	194.3	255.0	245.9	245.9	191.3	282.4	297.6	446.3	425.1
87.5°	45.5	51.6	124.5	136.6	103.2	57.7	88.1	100.2	160.9	185.2
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°
3482.6	0°	3482.6	3482.6	3482.6	3482.6	3482.6	3482.6	3482.6	3482.6	3482.6	3482.6
3543.3	2.5°	3497.8	3509.9	3561.5	3534.2	3549.4	3485.6	3537.2	3494.7	3531.2	3513.0
3570.6	5°	3594.9	3567.6	3598.0	3576.7	3576.7	3601.0	3637.4	3610.1	3664.8	3640.5
3591.9	7.5°	3634.4	3637.4	3655.7	3658.7	3643.5	3719.4	3722.5	3713.4	3765.0	3752.8
3737.6	10°	3731.6	3734.6	3768.0	3786.2	3771.0	3798.4	3768.0	3743.7	3740.7	3728.5
3853.0	12.5°	3886.4	3916.8	3910.7	3925.9	3928.9	3813.5	3743.7	3625.3	3610.1	3625.3
4023.1	15°	4029.1	4017.0	4023.1	4053.4	3925.9	3740.7	3616.2	3516.0	3522.1	3525.1
4244.7	17.5°	4199.2	4208.3	4217.4	4077.7	3843.9	3625.3	3516.0	3516.0	3485.6	3497.8
4399.5	20°	4393.5	4357.0	4278.1	4080.7	3701.2	3491.7	3458.3	3458.3	3421.9	3397.6
4566.5	22.5°	4545.3	4472.4	4354.0	3986.6	3573.7	3440.1	3358.1	3300.4	3257.9	3209.3
4751.8	25°	4642.4	4603.0	4372.2	3889.5	3479.6	3303.5	3182.0	3094.0	3039.3	2975.5
4897.5	27.5°	4791.2	4715.3	4423.8	3777.1	3376.3	3166.8	2978.6	2841.9	2738.7	2671.9
5119.1	30°	4991.6	4882.3	4387.4	3616.2	3218.4	2930.0	2708.3	2532.2	2413.8	2359.2
5328.6	32.5°	5155.6	5012.9	4357.0	3470.5	3042.3	2690.1	2395.6	2216.5	2149.7	2079.8
5680.9	35°	5468.3	5185.9	4335.8	3388.5	2884.5	2450.3	2140.6	1985.7	1900.7	1797.5
5890.4	37.5°	5708.2	5486.5	4284.2	3218.4	2681.0	2216.5	1946.2	1806.6	1679.1	1569.7
6376.2	40°	6084.7	5905.5	4287.2	2978.6	2441.2	2016.1	1794.4	1648.7	1487.8	1393.6
7095.8	42.5°	6792.1	6318.5	4305.4	2787.3	2170.9	1852.1	1657.8	1484.7	1323.8	1244.9
7915.5	45°	7660.5	6886.3	4193.1	2614.2	1894.6	1697.3	1493.8	1320.8	1217.5	1159.9
9029.9	47.5°	8659.4	7441.9	4041.3	2289.3	1663.9	1533.3	1342.0	1241.8	1165.9	1132.5
10466.0	50°	9776.8	8237.4	3998.8	1991.8	1484.7	1393.6	1269.2	1193.3	1141.6	1102.2
12084.3	52.5°	11216.0	9163.4	3913.7	1685.1	1329.9	1281.3	1241.8	1190.2	1144.7	1111.3
13593.4	55°	12591.4	10189.7	3822.7	1433.1	1220.6	1226.7	1247.9	1202.4	1162.9	1111.3
15284.6	57.5°	14139.9	11237.2	3485.6	1247.9	1138.6	1199.3	1241.8	1190.2	1150.7	1111.3
17015.2	60°	15096.3	11826.3	2826.8	1087.0	1065.7	1147.7	1205.4	1150.7	1108.2	1123.4
17810.7	62.5°	15485.0	11516.6	2131.5	986.8	1014.1	1077.9	1147.7	1126.5	1096.1	1153.8
17801.6	65°	14823.0	10803.0	1524.2	901.8	944.3	1008.0	1096.1	1120.4	1129.5	1241.8
16350.3	67.5°	13189.5	9406.4	1120.4	831.9	871.4	965.5	1132.5	1172.0	1165.9	1305.6
13720.9	70°	10554.1	7356.9	874.4	774.2	844.1	998.9	1184.1	1184.1	1141.6	1305.6
10466.0	72.5°	7678.7	5185.9	753.0	707.4	774.2	917.0	1178.1	1175.0	1120.4	1193.3
6664.6	75°	4648.5	3018.0	664.9	640.7	664.9	786.4	1126.5	1108.2	1032.3	1026.3
3206.3	77.5°	2316.7	1518.1	543.5	567.8	579.9	658.9	989.8	1017.1	913.9	889.6
1266.1	80°	977.7	661.9	452.4	488.8	488.8	555.6	822.8	841.0	759.1	713.5
501.0	82.5°	446.3	379.5	385.6	425.1	397.8	431.1	652.8	674.1	616.4	540.5
212.5	85°	188.2	215.6	294.5	334.0	294.5	279.3	449.4	473.7	400.8	334.0
91.1	87.5°	85.0	118.4	185.2	242.9	148.8	130.6	239.9	249.0	200.4	148.8
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>
3482.6
3479.6
3607.1
3734.6
3728.5
3631.4
3567.6
3500.8
3361.1
3182.0
2987.7
2702.3
2389.5
2076.8
1788.4
1572.8
1402.8
1250.9
1172.0
1126.5
1108.2
1108.2
1108.2
1108.2
1111.3
1138.6
1241.8
1314.7
1278.3
1150.7
1014.1
874.4
698.3
528.3
337.0
139.7
0.0

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