

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: P477523

Luminaire Tested: **IFLD-L-SA8A-827-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477523
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-827-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (128) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

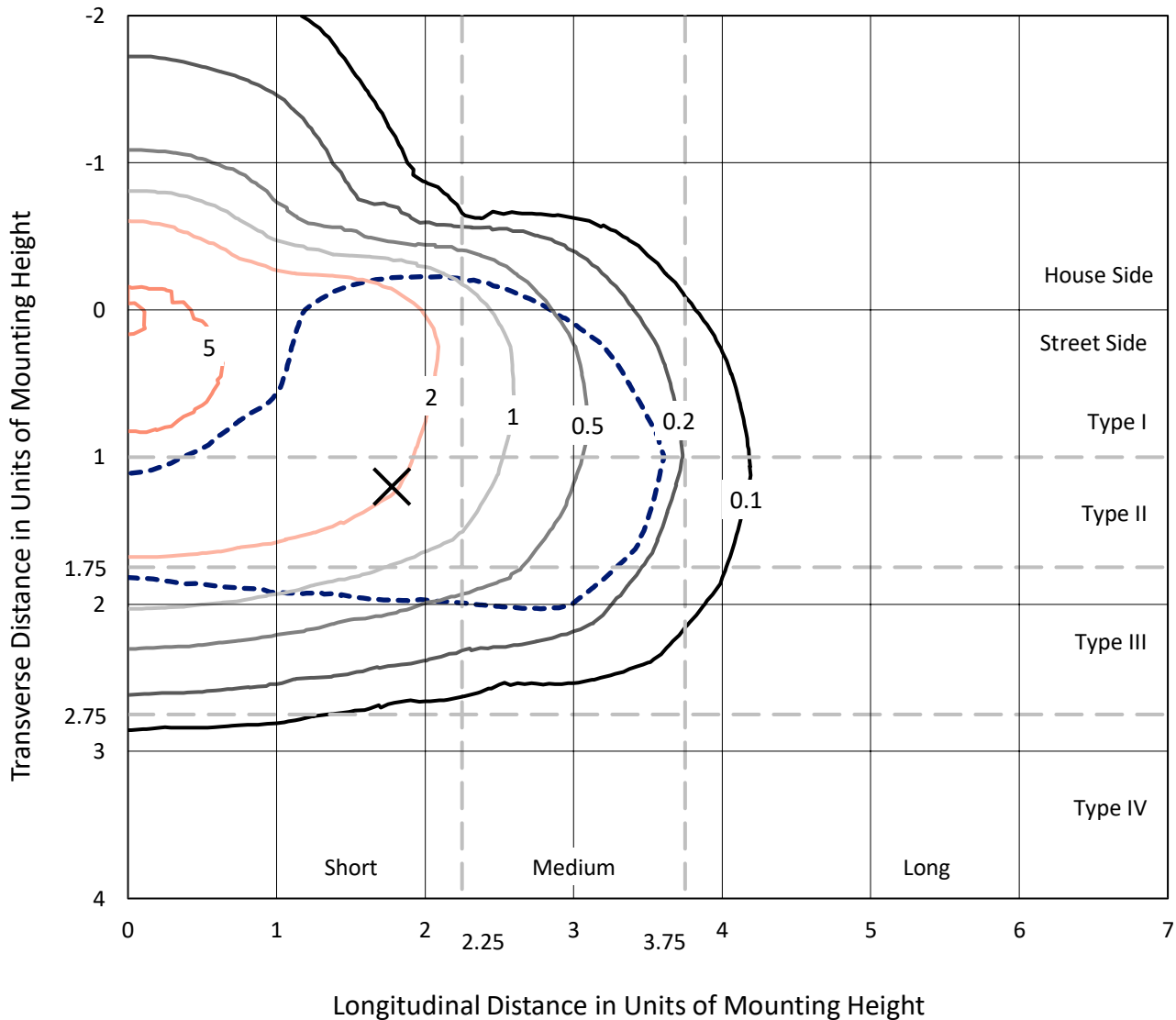
Lumens per Lamp: N/A
Luminaire Lumens: 25648.1 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 247.8
Input Voltage (V): 120
Input Current (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

REPORT NUMBER: P477523
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Iso-Footcandle Lines of Horizontal Illumination

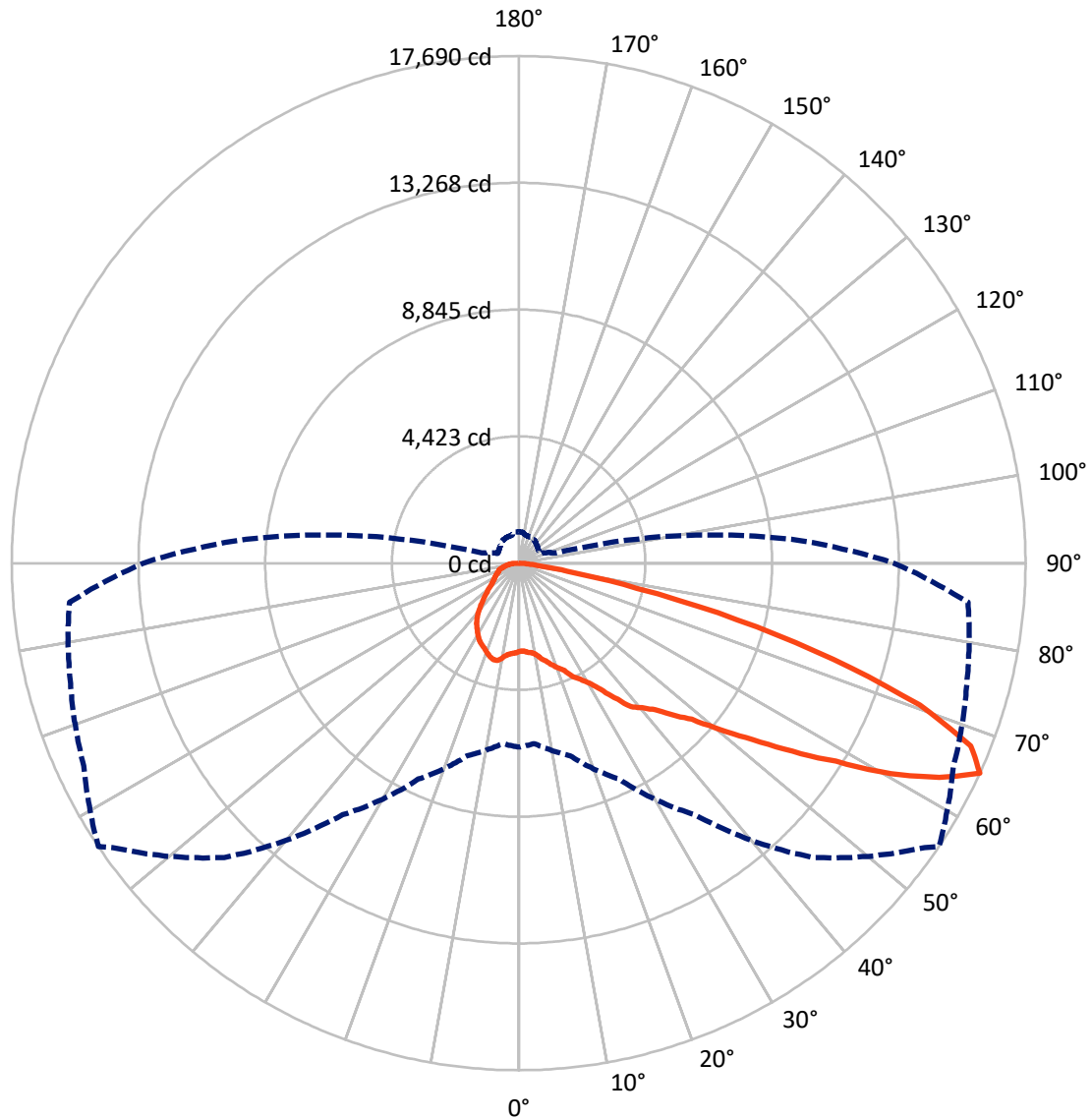
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type III - Short - N/A

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CATALOG NUMBER: IFLD-L-SA8A-827-U-T3

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	5752.0	0.0	5752.0
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	19896.1	0.0	19896.1
	% Fixture	77.6	0.0	77.6
Total	Lumens	25648.1	0.0	25648.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.1	1.2
10°-20°	990.6	3.9
20°-30°	1763.8	6.9
30°-40°	2641.3	10.3
40°-50°	3913.4	15.3
50°-60°	6030.0	23.5
60°-70°	6826.7	26.6
70°-80°	2833.1	11.0
80°-90°	344.2	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°	25648.1	100.0
0°-180°	25648.1	100.0

Coefficient of Utilization

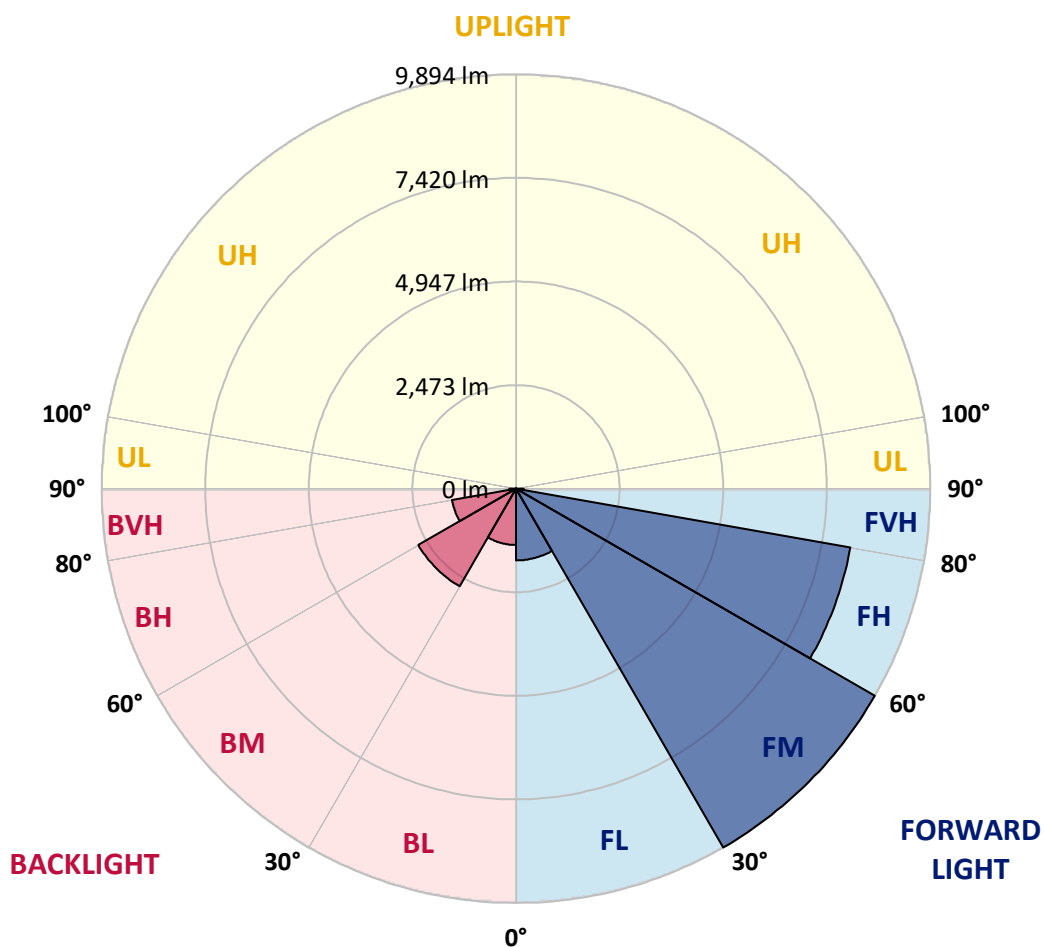


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1714.0	6.7			
FM (30°-60°)	9893.9	38.6			
FH (60°-80°)	8106.6	31.6			G4/12000
FVH (80°-90°)	181.6	0.7			G2/225
BL (0°-30°)	1345.5	5.2	B3/2500		
BM (30°-60°)	2690.7	10.5	B3/5000		
BH (60°-80°)	1553.2	6.1	B3/2500		G3/2500
BVH (80°-90°)	162.6	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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 CATALOG NUMBER: IFLD-L-SA8A-827-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	3078.5	3078.5	3078.5	3078.5	3078.5	3078.5	3078.5	3078.5	3078.5	3078.5
2.5°	2998.0	3014.1	3003.4	3035.6	3062.4	3062.4	3083.9	3067.8	3089.2	3118.8
5°	3097.3	3032.9	3067.8	3083.9	3075.8	3089.2	3067.8	3121.5	3086.6	3142.9
7.5°	3121.5	3145.6	3175.1	3148.3	3172.4	3159.0	3161.7	3153.7	3134.9	3180.5
10°	3298.6	3263.7	3330.8	3290.5	3285.2	3279.8	3269.1	3228.8	3274.4	3277.1
12.5°	3502.6	3470.4	3467.7	3435.5	3478.4	3400.6	3416.7	3395.2	3403.3	3414.0
15°	3650.2	3636.8	3698.5	3660.9	3604.6	3569.7	3607.2	3548.2	3577.7	3572.4
17.5°	3942.7	3940.1	3894.4	3832.7	3800.5	3749.5	3741.4	3717.3	3738.8	3728.0
20°	4146.7	4176.3	4184.3	4111.8	3988.4	3932.0	3918.6	3899.8	3924.0	3915.9
22.5°	4458.1	4412.4	4447.3	4321.2	4275.6	4141.4	4093.0	4066.2	4181.6	4152.1
25°	4656.7	4705.0	4670.1	4627.2	4525.2	4358.8	4323.9	4382.9	4428.5	4396.3
27.5°	5104.9	5056.6	5024.4	4895.6	4828.5	4654.0	4613.7	4592.3	4603.0	4621.8
30°	5445.8	5472.6	5400.1	5308.9	5139.8	4962.7	4868.7	4849.9	4812.3	4780.1
32.5°	5931.6	5891.3	5848.4	5789.3	5644.4	5410.9	5319.6	5249.8	5137.1	4986.8
35°	6165.1	6280.5	6248.3	6089.9	5979.9	5891.3	5864.5	5757.1	5663.2	5427.0
37.5°	6554.2	6602.6	6556.9	6505.9	6454.9	6361.0	6328.8	6358.3	6173.1	5783.9
40°	6806.5	6908.5	7002.5	6860.2	6849.5	6868.3	6669.7	6634.8	6253.6	6049.7
42.5°	7321.9	7364.8	7383.6	7378.2	7440.0	7440.0	7061.5	6986.4	6715.3	6548.9
45°	8003.6	8038.5	8105.6	8153.9	8084.1	8119.0	7579.5	7550.0	7308.4	7276.2
47.5°	8594.1	8677.3	8827.6	8969.8	9061.1	8943.0	8352.5	8143.2	8081.4	8274.7
50°	9109.4	9010.1	9361.7	9506.6	9906.5	10102.4	9206.0	9122.8	9023.5	9393.9
52.5°	9160.4	9294.6	9791.1	10081.0	10905.0	11267.3	10252.7	10217.9	10097.1	10523.8
55°	9525.4	9509.3	10008.5	10636.6	11616.2	12225.5	11616.2	11594.7	11331.7	11737.0
57.5°	9463.7	9627.4	10021.9	10899.6	12257.7	13253.4	13197.1	13049.4	12681.7	13011.9
60°	9254.3	9297.3	9777.7	10891.5	12630.7	14308.2	14904.1	14933.6	14182.1	14445.1
62.5°	8068.0	8167.3	8776.6	10035.3	12365.0	15035.6	16570.8	16466.1	15864.9	15564.3
65°	6417.4	6318.1	6951.5	8312.2	10711.7	14520.3	17300.8	17690.0	16745.3	16195.0
67.5°	3934.7	3910.5	4519.8	5719.5	8014.3	12357.0	16718.4	17021.7	16501.0	16060.8
70°	2026.4	1964.7	2345.8	3191.2	5037.8	9066.4	14549.8	14847.7	15344.2	14404.8
72.5°	944.8	931.3	1135.3	1570.1	2565.9	5330.4	11267.3	11482.0	12528.8	12144.9
75°	555.6	563.6	679.0	821.3	1250.7	2512.2	7477.5	7893.5	9028.9	8752.4
77.5°	416.0	416.0	483.1	571.7	730.0	971.6	3690.5	4240.7	5279.4	4747.9
80°	306.0	311.3	370.4	429.4	507.3	501.9	1465.4	1717.7	2420.9	2069.3
82.5°	238.9	246.9	287.2	319.4	357.0	303.3	601.2	646.8	995.8	791.8
85°	166.4	171.8	225.5	217.4	217.4	169.1	249.6	263.0	394.5	375.8
87.5°	40.3	45.6	110.0	120.8	91.3	51.0	77.8	88.6	142.3	163.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P477523
 CATALOG NUMBER: IFLD-L-SA8A-827-U-T3

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3078.5	0°	3078.5	3078.5	3078.5	3078.5	3078.5	3078.5	3078.5	3078.5	3078.5	3078.5
3132.2	2.5°	3091.9	3102.7	3148.3	3124.1	3137.6	3081.2	3126.8	3089.2	3121.5	3105.3
3156.3	5°	3177.8	3153.7	3180.5	3161.7	3161.7	3183.2	3215.4	3191.2	3239.5	3218.1
3175.1	7.5°	3212.7	3215.4	3231.5	3234.2	3220.8	3287.9	3290.5	3282.5	3328.1	3317.4
3304.0	10°	3298.6	3301.3	3330.8	3346.9	3333.5	3357.6	3330.8	3309.3	3306.6	3295.9
3406.0	12.5°	3435.5	3462.3	3456.9	3470.4	3473.1	3371.1	3309.3	3204.7	3191.2	3204.7
3556.3	15°	3561.6	3550.9	3556.3	3583.1	3470.4	3306.6	3196.6	3108.0	3113.4	3116.1
3752.2	17.5°	3711.9	3720.0	3728.0	3604.6	3397.9	3204.7	3108.0	3108.0	3081.2	3091.9
3889.1	20°	3883.7	3851.5	3781.7	3607.2	3271.8	3086.6	3057.0	3057.0	3024.8	3003.4
4036.7	22.5°	4017.9	3953.5	3848.8	3524.0	3159.0	3040.9	2968.5	2917.5	2879.9	2837.0
4200.4	25°	4103.8	4068.9	3864.9	3438.2	3075.8	2920.2	2812.8	2735.0	2686.6	2630.3
4329.2	27.5°	4235.3	4168.2	3910.5	3338.9	2984.6	2799.4	2633.0	2512.2	2420.9	2361.9
4525.2	30°	4412.4	4315.8	3878.3	3196.6	2845.0	2590.0	2394.1	2238.4	2133.8	2085.4
4710.4	32.5°	4557.4	4431.2	3851.5	3067.8	2689.3	2378.0	2117.6	1959.3	1900.2	1838.5
5021.7	35°	4833.8	4584.2	3832.7	2995.3	2549.8	2166.0	1892.2	1755.3	1680.2	1588.9
5206.9	37.5°	5045.9	4849.9	3787.1	2845.0	2369.9	1959.3	1720.4	1597.0	1484.2	1387.6
5636.3	40°	5378.7	5220.3	3789.8	2633.0	2157.9	1782.2	1586.2	1457.4	1315.1	1231.9
6272.4	42.5°	6004.0	5585.3	3805.9	2463.9	1919.0	1637.2	1465.4	1312.5	1170.2	1100.4
6997.1	45°	6771.6	6087.2	3706.6	2310.9	1674.8	1500.3	1320.5	1167.5	1076.3	1025.3
7982.1	47.5°	7654.7	6578.4	3572.4	2023.7	1470.8	1355.4	1186.3	1097.7	1030.6	1001.1
9251.6	50°	8642.4	7281.6	3534.8	1760.7	1312.5	1231.9	1121.9	1054.8	1009.2	974.3
10682.2	52.5°	9914.6	8100.2	3459.6	1489.6	1175.6	1132.6	1097.7	1052.1	1011.9	982.3
12016.1	55°	11130.4	9007.4	3379.1	1266.8	1079.0	1084.3	1103.1	1062.9	1028.0	982.3
13511.1	57.5°	12499.2	9933.4	3081.2	1103.1	1006.5	1060.2	1097.7	1052.1	1017.2	982.3
15040.9	60°	13344.7	10454.0	2498.8	960.9	942.1	1014.5	1065.5	1017.2	979.6	993.1
15744.1	62.5°	13688.2	10180.3	1884.1	872.3	896.4	952.8	1014.5	995.8	968.9	1019.9
15736.1	65°	13103.1	9549.5	1347.4	797.1	834.7	891.1	968.9	990.4	998.4	1097.7
14453.2	67.5°	11659.1	8314.9	990.4	735.4	770.3	853.5	1001.1	1036.0	1030.6	1154.1
12128.8	70°	9329.5	6503.2	773.0	684.4	746.1	883.0	1046.7	1046.7	1009.2	1154.1
9251.6	72.5°	6787.7	4584.2	665.6	625.4	684.4	810.6	1041.4	1038.7	990.4	1054.8
5891.3	75°	4109.2	2667.9	587.8	566.3	587.8	695.1	995.8	979.6	912.5	907.2
2834.3	77.5°	2047.9	1342.0	480.4	501.9	512.6	582.4	875.0	899.1	807.9	786.4
1119.2	80°	864.2	585.1	399.9	432.1	432.1	491.2	727.4	743.5	671.0	630.7
442.9	82.5°	394.5	335.5	340.9	375.8	351.6	381.1	577.1	595.8	544.8	477.7
187.9	85°	166.4	190.6	260.3	295.2	260.3	246.9	397.2	418.7	354.3	295.2
80.5	87.5°	75.2	104.7	163.7	214.7	131.5	115.4	212.0	220.1	177.1	131.5
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>
3078.5
3075.8
3188.6
3301.3
3295.9
3210.0
3153.7
3094.6
2971.1
2812.8
2641.0
2388.7
2112.3
1835.8
1580.9
1390.3
1240.0
1105.8
1036.0
995.8
979.6
979.6
979.6
979.6
982.3
1006.5
1097.7
1162.2
1129.9
1017.2
896.4
773.0
617.3
467.0
297.9
123.5
0.0

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