

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: P477748

Luminaire Tested: **IFLD-M-SA4B-735-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477748
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-735-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

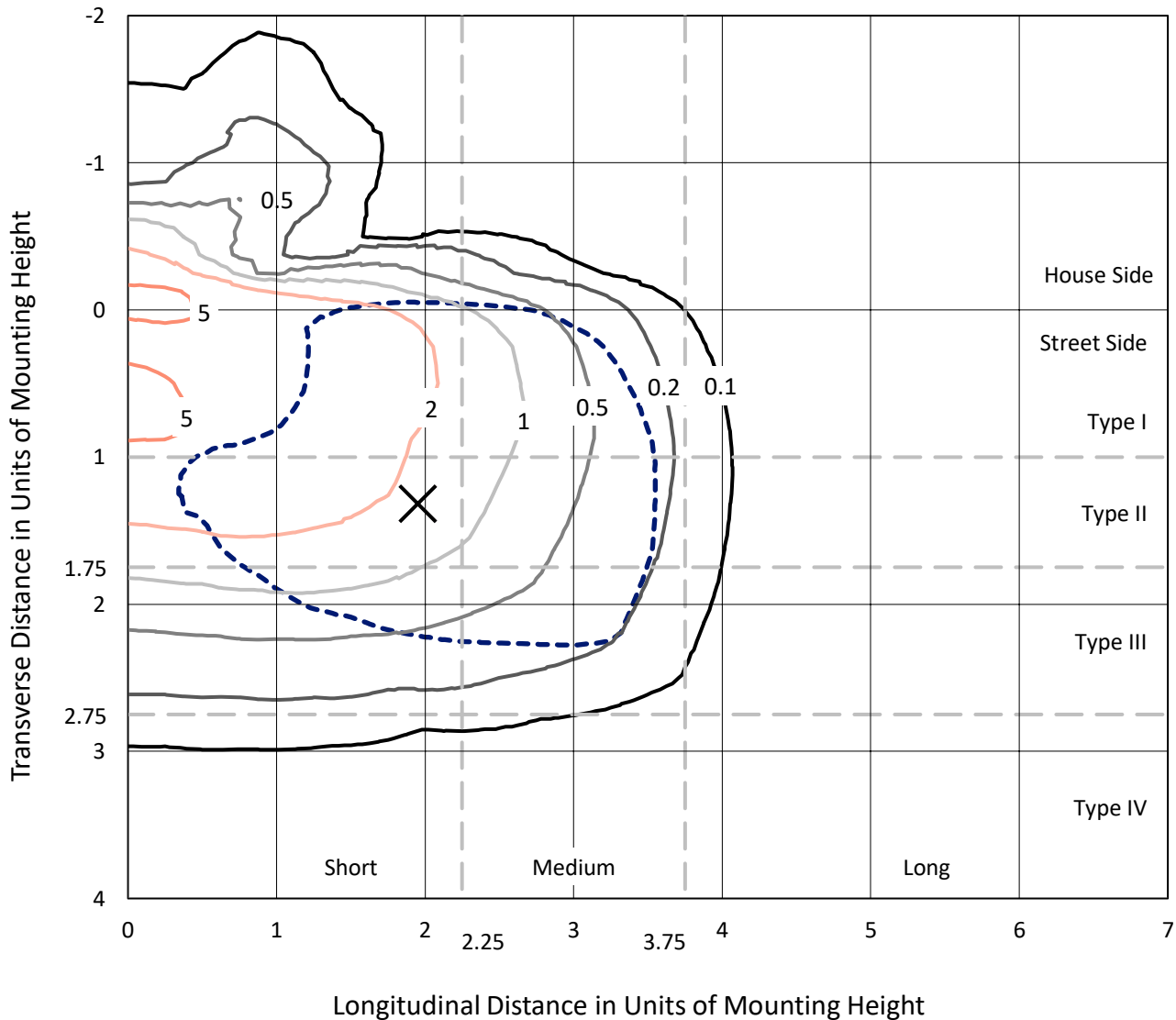
Lumens per Lamp: N/A
Luminaire Lumens: 22127.8 lumens
Efficiency: N/A
Efficacy: 133.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 166.1
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: P477748
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Iso-Footcandle Lines of Horizontal Illumination

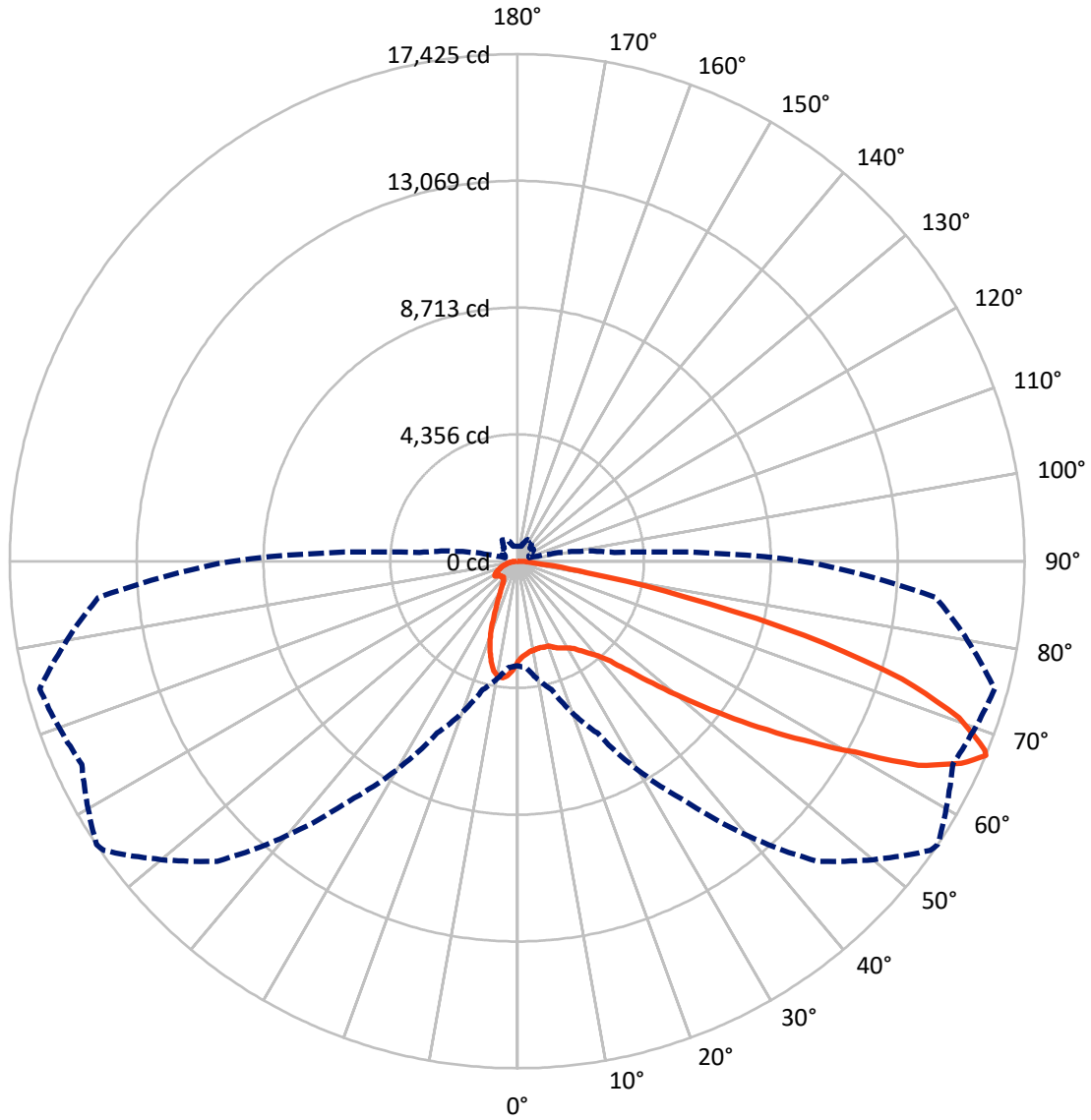
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type III - Short - N/A

REPORT NUMBER: P477748
CATALOG NUMBER: IFLD-M-SA4B-735-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	3503.0	0.0	3503.0
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	18624.7	0.0	18624.7
	% Fixture	84.2	0.0	84.2
Total	Lumens	22127.8	0.0	22127.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.7	1.5
10°-20°	904.9	4.1
20°-30°	1419.1	6.4
30°-40°	2025.9	9.2
40°-50°	3057.6	13.8
50°-60°	4867.2	22.0
60°-70°	6222.3	28.1
70°-80°	3033.8	13.7
80°-90°	265.4	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°	22127.8	100.0
0°-180°	22127.8	100.0

Coefficient of Utilization

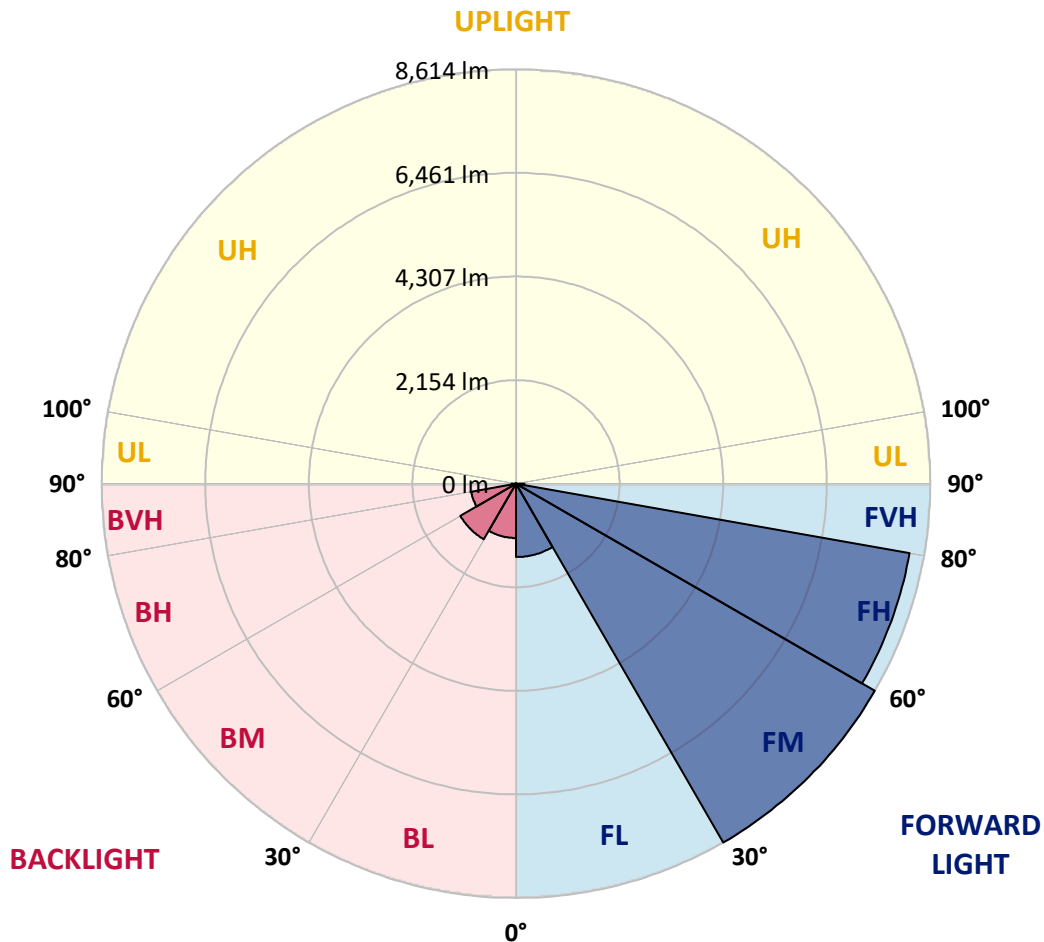


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1524.9	6.9			
FM (30°-60°)	8614.1	38.9			
FH (60°-80°)	8309.5	37.6			G4/12000
FVH (80°-90°)	176.3	0.8			G2/225
BL (0°-30°)	1130.9	5.1	B3/2500		
BM (30°-60°)	1336.4	6.0	B2/2500		
BH (60°-80°)	946.6	4.3	B2/1000		G2/1000
BVH (80°-90°)	89.1	0.4			G1/100
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-M-SA4B-735-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	3443.0	3443.0	3443.0	3443.0	3443.0	3443.0	3443.0	3443.0	3443.0	3443.0
2.5°	3162.8	3149.8	3165.4	3149.8	3219.9	3261.4	3274.4	3292.5	3357.4	3419.7
5°	3030.5	2973.4	3035.7	3056.4	3061.6	3131.7	3204.3	3217.3	3251.0	3352.2
7.5°	2809.9	2874.8	2851.5	2913.7	2978.6	3048.6	3168.0	3134.3	3258.8	3354.8
10°	2763.2	2768.4	2794.4	2817.7	2874.8	2965.6	3131.7	3110.9	3238.0	3443.0
12.5°	2809.9	2809.9	2802.2	2784.0	2848.9	2937.1	3069.4	3079.8	3279.6	3469.0
15°	2973.4	3004.5	2921.5	2934.5	2908.5	2937.1	3053.8	3077.2	3295.1	3489.7
17.5°	3373.0	3362.6	3264.0	3126.5	3012.3	2994.2	3074.6	3100.5	3279.6	3549.4
20°	3762.2	3741.4	3570.2	3427.5	3201.7	3095.3	3108.3	3110.9	3305.5	3588.3
22.5°	4195.5	4249.9	4063.1	3772.5	3492.3	3227.7	3175.8	3217.3	3365.2	3609.1
25°	4875.2	4758.5	4597.6	4216.2	3764.7	3432.6	3287.3	3308.1	3422.3	3661.0
27.5°	5365.6	5318.9	5067.2	4758.5	4146.2	3593.5	3347.0	3385.9	3526.0	3658.4
30°	5837.8	5837.8	5684.7	5222.9	4548.3	3863.3	3474.2	3456.0	3476.7	3653.2
32.5°	6390.5	6315.2	6094.7	5788.5	5054.3	4109.8	3575.3	3580.5	3580.5	3749.2
35°	6681.1	6803.0	6655.1	6157.0	5440.9	4519.8	3819.2	3780.3	3751.8	3855.6
37.5°	7106.6	7179.2	7023.6	6730.4	5920.9	4851.9	4034.6	4003.5	3837.4	3938.6
40°	7363.4	7350.5	7345.3	7210.4	6556.5	5243.7	4351.1	4270.7	4047.6	4231.8
42.5°	7508.7	7482.8	7801.9	7718.9	7155.9	5819.7	4748.1	4704.0	4457.5	4753.3
45°	7672.2	7864.2	8126.3	8359.8	7853.8	6629.2	5420.1	5357.8	5137.3	5513.5
47.5°	7814.9	8051.0	8385.7	8634.8	8484.3	7508.7	6250.4	6265.9	6120.6	6507.2
50°	8053.6	8077.0	8531.0	9034.4	9151.1	8320.8	7366.0	7340.1	7275.2	7817.5
52.5°	7981.0	8051.0	8624.4	9267.9	9459.9	9179.7	8564.7	8642.6	8557.0	9239.3
55°	6797.8	7008.0	8567.3	9514.4	10191.5	10150.0	10105.9	10054.0	10048.8	10837.6
57.5°	6260.7	6432.0	7547.7	9786.8	10975.1	11281.3	11566.7	11623.8	11621.2	12573.4
60°	5907.9	6084.3	7135.1	9638.9	11641.9	12762.8	13310.2	13318.0	13302.5	14428.5
62.5°	5217.7	5389.0	6421.6	8829.4	11826.1	14130.1	15349.6	15450.8	14737.3	16026.8
65°	4387.5	4527.6	5438.3	7591.8	11335.8	14999.3	16883.0	16763.6	15946.3	16940.1
67°	3588.3	3681.7	4569.1	6517.6	10054.0	14581.6	17326.7	17425.3	16504.2	16979.0
67.5°	3360.0	3445.6	4283.7	6151.8	9566.3	14265.1	17342.2	17326.7	16514.6	16986.8
70°	2332.5	2368.9	2918.9	4231.8	7046.9	12051.9	16076.1	16112.4	15821.8	16065.7
72.5°	1546.4	1600.9	1951.1	2667.2	4153.9	8769.7	13437.4	13826.6	13642.3	13172.7
75°	996.3	1027.5	1276.5	1587.9	2044.5	4994.6	9926.9	10186.4	9763.4	8147.0
77.5°	557.8	591.6	770.6	965.2	996.3	2078.3	5575.8	5897.5	4997.2	3461.2
80°	347.7	391.8	581.2	573.4	474.8	762.8	2298.8	2462.3	1997.8	1190.9
82.5°	262.1	295.8	448.9	402.2	267.2	339.9	861.4	923.7	731.7	459.2
85°	179.0	225.7	324.3	249.1	140.1	163.5	342.5	368.4	334.7	223.1
87.5°	64.9	96.0	168.6	124.5	62.3	49.3	111.6	124.5	119.4	101.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P477748
 CATALOG NUMBER: IFLD-M-SA4B-735-U-T3R

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3443.0	0°	3443.0	3443.0	3443.0	3443.0	3443.0	3443.0	3443.0	3443.0	3443.0	3443.0
3474.2	2.5°	3523.5	3559.8	3577.9	3684.3	3728.4	3720.6	3731.0	3746.6	3762.2	3782.9
3518.3	5°	3552.0	3663.6	3723.2	3847.8	3930.8	3894.5	3941.2	3928.2	3910.0	3907.5
3598.7	7.5°	3645.4	3788.1	3967.1	4000.9	4037.2	3946.4	3868.5	3762.2	3736.2	3645.4
3666.2	10°	3811.5	3928.2	4146.2	4159.1	3998.3	3764.7	3590.9	3370.4	3367.8	3235.5
3769.9	12.5°	3969.7	4102.0	4278.5	4203.2	3819.2	3500.1	3217.3	2976.0	2874.8	2807.3
3832.2	15°	4068.3	4286.3	4379.7	4055.3	3505.3	3074.6	2708.8	2449.3	2345.5	2296.2
3910.0	17.5°	4159.1	4462.7	4421.2	3795.9	3118.7	2636.1	2200.2	1974.5	1945.9	1909.6
4034.6	20°	4283.7	4527.6	4273.3	3458.6	2680.2	2070.5	1792.9	1683.9	1709.8	1725.4
4047.6	22.5°	4400.4	4561.3	4086.5	3090.2	2117.2	1639.8	1502.3	1525.6	1564.5	1616.4
4078.7	25°	4452.3	4615.8	3834.8	2581.6	1611.2	1380.3	1349.2	1388.1	1453.0	1455.6
4122.8	27.5°	4486.0	4576.9	3531.2	2086.0	1273.9	1206.5	1253.2	1281.7	1289.5	1320.6
4216.2	30°	4545.7	4496.4	3147.2	1491.9	1069.0	1071.6	1131.2	1131.2	1131.2	1154.6
4309.6	32.5°	4649.5	4441.9	2698.4	1089.7	921.1	1004.1	988.5	983.3	973.0	944.4
4429.0	35°	4714.4	4294.0	2130.2	806.9	827.7	921.1	915.9	835.5	700.5	633.1
4732.5	37.5°	4849.3	4218.8	1567.1	622.7	773.2	879.6	851.0	656.4	508.5	443.7
5108.7	40°	5139.9	4169.5	1084.5	544.9	736.9	858.8	760.2	560.4	389.2	275.0
5689.9	42.5°	5495.3	4172.1	736.9	513.7	739.5	902.9	731.7	480.0	275.0	220.5
6465.7	45°	5972.7	4133.2	505.9	513.7	786.2	975.6	749.8	435.9	267.2	280.2
7438.7	47.5°	6486.5	4166.9	376.2	467.0	793.9	978.2	685.0	428.1	256.9	324.3
8497.3	50°	7085.8	4200.6	311.4	430.7	796.5	947.0	630.5	417.7	267.2	342.5
9711.5	52.5°	7703.3	4307.0	264.6	407.4	827.7	934.1	630.5	433.3	267.2	298.4
11257.9	55°	8624.4	4579.4	381.4	508.5	941.8	1019.7	775.8	607.1	373.6	384.0
12739.4	57.5°	9641.5	4859.7	425.5	534.5	967.8	918.5	835.5	669.4	394.4	397.0
13891.4	60°	10310.9	4870.0	422.9	521.5	905.5	793.9	817.3	705.7	402.2	339.9
14604.9	62.5°	10578.1	4553.5	441.1	521.5	843.2	742.1	838.1	760.2	415.1	425.5
14807.3	65°	10274.6	3899.7	425.5	467.0	742.1	664.2	843.2	770.6	454.1	428.1
14444.1	67°	9799.8	3360.0	433.3	443.7	690.2	630.5	887.3	809.5	526.7	513.7
14254.7	67.5°	9664.8	3217.3	430.7	430.7	672.0	620.1	897.7	809.5	537.1	531.9
12581.2	70°	8518.0	2607.6	441.1	425.5	594.2	589.0	954.8	853.6	617.5	622.7
9241.9	72.5°	6483.9	1977.1	438.5	425.5	516.3	563.0	962.6	882.2	672.0	622.7
5176.2	75°	3684.3	1183.1	386.6	371.0	407.4	490.4	900.3	840.6	653.8	557.8
2067.9	77.5°	1523.0	609.7	355.5	334.7	337.3	399.6	749.8	783.6	622.7	474.8
690.2	80°	568.2	365.8	285.4	267.2	259.5	293.2	534.5	625.3	531.9	389.2
303.6	82.5°	295.8	228.3	194.6	194.6	176.4	186.8	288.0	415.1	402.2	267.2
121.9	85°	150.5	129.7	111.6	109.0	98.6	88.2	145.3	246.5	230.9	147.9
54.5	87.5°	80.4	72.6	46.7	44.1	36.3	23.4	25.9	49.3	80.4	64.9
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>
3443.0
3803.7
3930.8
3676.5
3230.3
2791.8
2285.8
1927.8
1707.2
1587.9
1481.5
1349.2
1180.5
928.9
664.2
441.1
267.2
215.4
285.4
360.6
397.0
306.2
404.8
384.0
350.3
430.7
420.3
505.9
521.5
576.0
552.6
498.2
448.9
355.5
210.2
121.9
46.7
0.0

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