

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: P477730

Luminaire Tested: **IFLD-S-SA3D-735-U-T3R**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477730  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3D-735-U-T3R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens  
Light Source: (48) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

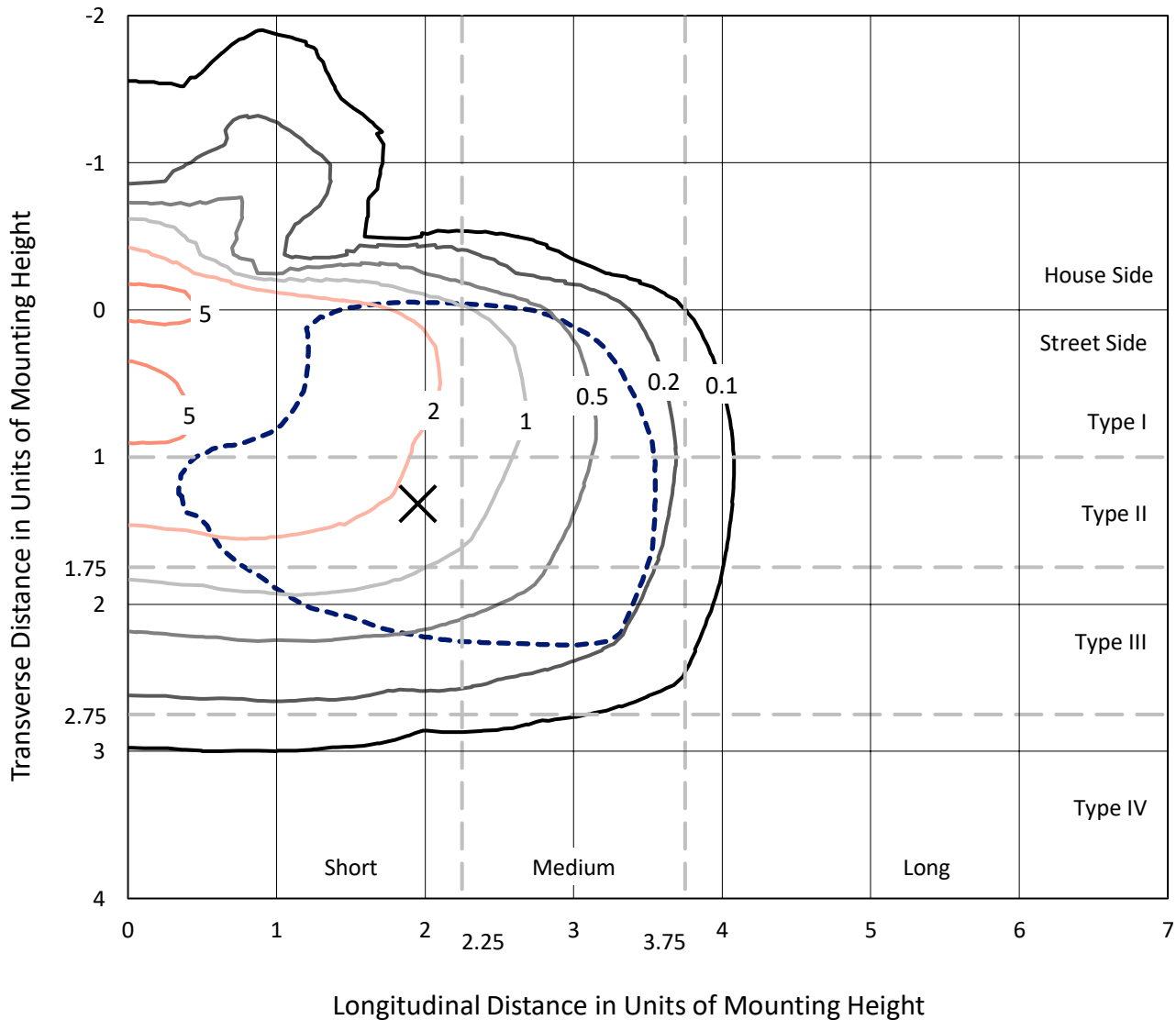
Lumens per Lamp: N/A  
Luminaire Lumens: 22580.8 lumens  
Efficiency: N/A  
Efficacy: 122.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 184.1  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

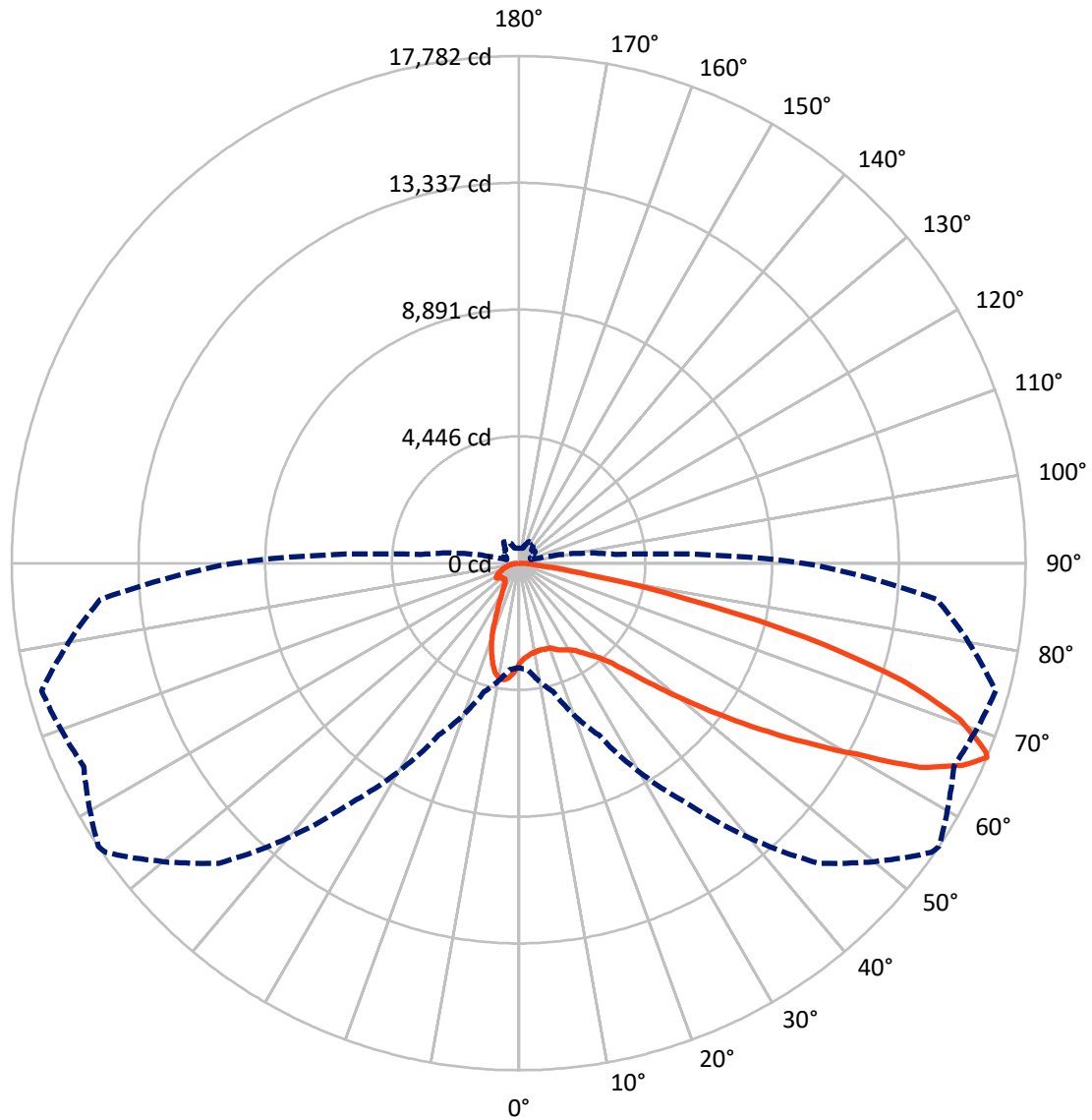
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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
<b>House Side</b>	Lumens	3574.8	0.0	3574.8
	% Fixture	15.8	0.0	15.8
<b>Street Side</b>	Lumens	19006.0	0.0	19006.0
	% Fixture	84.2	0.0	84.2
<b>Total</b>	Lumens	22580.8	0.0	22580.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	338.5	1.5
10°-20°	923.4	4.1
20°-30°	1448.2	6.4
30°-40°	2067.3	9.2
40°-50°	3120.2	13.8
50°-60°	4966.8	22.0
60°-70°	6349.7	28.1
70°-80°	3095.9	13.7
80°-90°	270.8	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°	22580.8	100.0
0°-180°	22580.8	100.0

**Coefficient of Utilization**

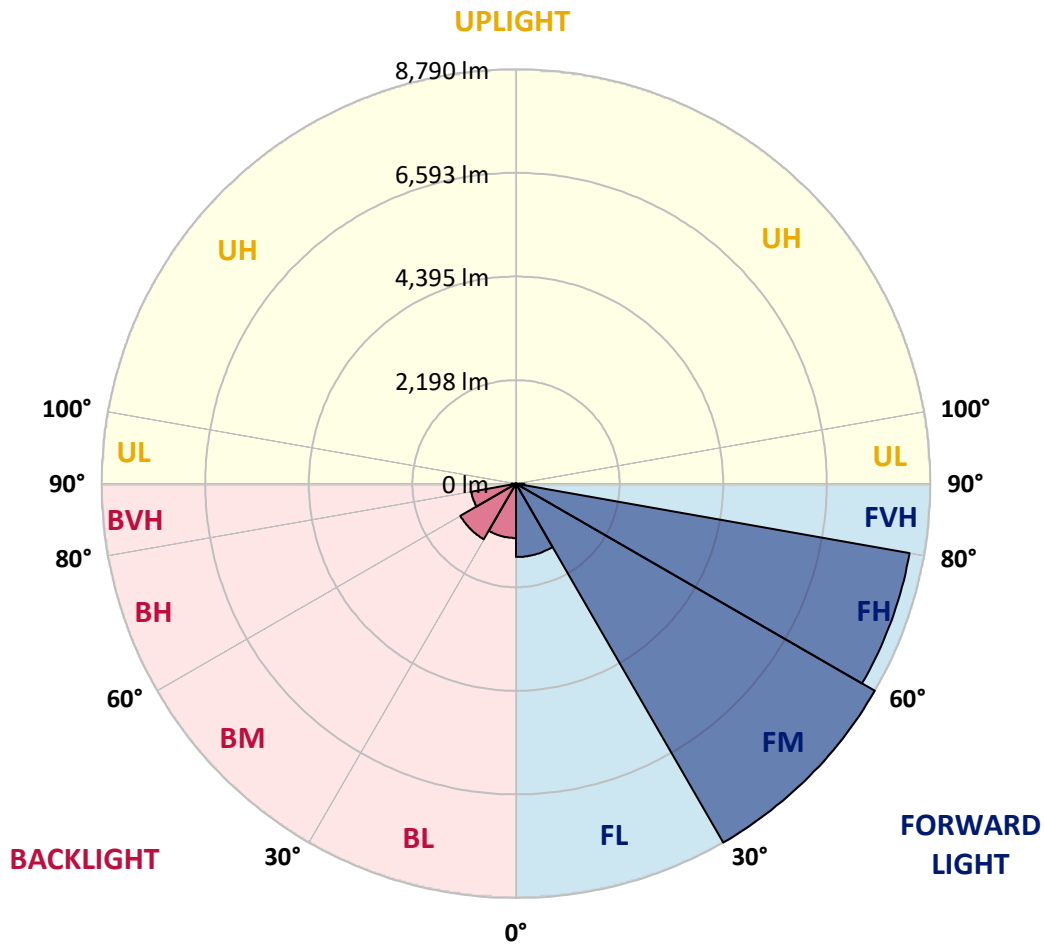


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1556.1	6.9			
FM (30°-60°)	8790.5	38.9			
FH (60°-80°)	8479.6	37.6			G4/12000
FVH (80°-90°)	179.9	0.8			G2/225
BL (0°-30°)	1154.0	5.1	B3/2500		
BM (30°-60°)	1363.8	6.0	B2/2500		
BH (60°-80°)	966.0	4.3	B2/1000		G2/1000
BVH (80°-90°)	91.0	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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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	3513.5	3513.5	3513.5	3513.5	3513.5	3513.5	3513.5	3513.5	3513.5	3513.5
2.5°	3227.6	3214.3	3230.2	3214.3	3285.8	3328.2	3341.4	3359.9	3426.1	3489.7
5°	3092.5	3034.3	3097.8	3119.0	3124.3	3195.8	3269.9	3283.2	3317.6	3420.8
7.5°	2867.5	2933.7	2909.8	2973.4	3039.6	3111.1	3232.8	3198.4	3325.5	3423.5
10°	2819.8	2825.1	2851.6	2875.4	2933.7	3026.3	3195.8	3174.6	3304.3	3513.5
12.5°	2867.5	2867.5	2859.5	2841.0	2907.2	2997.2	3132.2	3142.8	3346.7	3540.0
15°	3034.3	3066.0	2981.3	2994.6	2968.1	2997.2	3116.3	3140.2	3362.6	3561.2
17.5°	3442.0	3431.4	3330.8	3190.5	3074.0	3055.5	3137.5	3164.0	3346.7	3622.1
20°	3839.2	3818.0	3643.2	3497.6	3267.3	3158.7	3172.0	3174.6	3373.2	3661.8
22.5°	4281.3	4336.9	4146.3	3849.8	3563.8	3293.7	3240.8	3283.2	3434.1	3683.0
25°	4975.0	4855.9	4691.7	4302.5	3841.8	3502.9	3354.6	3375.8	3492.3	3735.9
27.5°	5475.5	5427.8	5171.0	4855.9	4231.0	3667.1	3415.5	3455.3	3598.2	3733.3
30°	5957.3	5957.3	5801.1	5329.8	4641.4	3942.4	3545.3	3526.7	3547.9	3728.0
32.5°	6521.3	6444.5	6219.5	5907.0	5157.7	4194.0	3648.5	3653.8	3653.8	3825.9
35°	6817.8	6942.3	6791.4	6283.0	5552.2	4612.3	3897.4	3857.7	3828.6	3934.5
37.5°	7252.1	7326.2	7167.3	6868.1	6042.1	4951.2	4117.2	4085.4	3916.0	4019.2
40°	7514.2	7500.9	7495.7	7358.0	6690.8	5351.0	4440.2	4358.1	4130.4	4318.4
42.5°	7662.5	7636.0	7961.6	7876.9	7302.4	5938.8	4845.3	4800.3	4548.8	4850.6
45°	7829.3	8025.2	8292.6	8530.9	8014.6	6764.9	5531.1	5467.5	5242.5	5626.4
47.5°	7974.9	8215.8	8557.4	8811.6	8658.0	7662.5	6378.3	6394.2	6245.9	6640.4
50°	8218.5	8242.3	8705.7	9219.3	9338.5	8491.2	7516.8	7490.4	7424.2	7977.5
52.5°	8144.3	8215.8	8801.0	9457.6	9653.5	9367.6	8740.1	8819.5	8732.1	9428.5
55°	6937.0	7151.5	8742.7	9709.1	10400.2	10357.8	10312.8	10259.9	10254.6	11059.5
57.5°	6388.9	6563.7	7702.2	9987.1	11199.8	11512.2	11803.5	11861.7	11859.1	12830.8
60°	6028.8	6208.9	7281.2	9836.2	11880.3	13024.1	13582.7	13590.7	13574.8	14723.9
62.5°	5324.5	5499.3	6553.1	9010.1	12068.2	14419.4	15663.8	15767.1	15039.0	16354.9
65°	4477.3	4620.2	5549.6	7747.2	11567.8	15306.4	17228.6	17106.8	16272.8	17286.9
67°	3661.8	3757.1	4662.6	6651.0	10259.9	14880.1	17681.4	17782.0	16842.1	17326.6
67.5°	3428.8	3516.2	4371.4	6277.7	9762.1	14557.1	17697.3	17681.4	16852.6	17334.5
70°	2380.3	2417.4	2978.7	4318.4	7191.2	12298.6	16405.2	16442.2	16145.7	16394.6
72.5°	1578.0	1633.6	1991.1	2721.8	4239.0	8949.2	13712.5	14109.6	13921.6	13442.4
75°	1016.7	1048.5	1302.7	1620.4	2086.4	5096.8	10130.1	10394.9	9963.3	8313.8
77.5°	569.3	603.7	786.4	984.9	1016.7	2120.8	5689.9	6018.2	5099.5	3532.0
80°	354.8	399.8	593.1	585.1	484.5	778.4	2345.9	2512.7	2038.7	1215.3
82.5°	267.4	301.8	458.1	410.4	272.7	346.8	879.0	942.6	746.7	468.6
85°	182.7	230.4	331.0	254.2	143.0	166.8	349.5	376.0	341.6	227.7
87.5°	66.2	98.0	172.1	127.1	63.5	50.3	113.9	127.1	121.8	103.3
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°
3513.5	0°	3513.5	3513.5	3513.5	3513.5	3513.5	3513.5	3513.5	3513.5	3513.5	3513.5
3545.3	2.5°	3595.6	3632.7	3651.2	3759.7	3804.8	3796.8	3807.4	3823.3	3839.2	3860.4
3590.3	5°	3624.7	3738.6	3799.5	3926.5	4011.3	3974.2	4021.9	4008.6	3990.1	3987.4
3672.4	7.5°	3720.0	3865.6	4048.3	4082.8	4119.8	4027.2	3947.7	3839.2	3812.7	3720.0
3741.2	10°	3889.5	4008.6	4231.0	4244.3	4080.1	3841.8	3664.4	3439.4	3436.7	3301.7
3847.1	12.5°	4051.0	4186.0	4366.1	4289.3	3897.4	3571.8	3283.2	3036.9	2933.7	2864.8
3910.7	15°	4151.6	4374.0	4469.3	4138.4	3577.0	3137.5	2764.2	2499.4	2393.5	2343.2
3990.1	17.5°	4244.3	4554.1	4511.7	3873.6	3182.5	2690.1	2245.3	2014.9	1985.8	1948.7
4117.2	20°	4371.4	4620.2	4360.8	3529.4	2735.1	2112.9	1829.6	1718.4	1744.8	1760.7
4130.4	22.5°	4490.5	4654.7	4170.1	3153.4	2160.5	1673.3	1533.0	1556.9	1596.6	1649.5
4162.2	25°	4543.5	4710.3	3913.3	2634.5	1644.2	1408.6	1376.8	1416.5	1482.7	1485.4
4207.2	27.5°	4577.9	4670.6	3603.5	2128.8	1300.0	1231.2	1278.8	1308.0	1315.9	1347.7
4302.5	30°	4638.8	4588.5	3211.7	1522.4	1090.9	1093.5	1154.4	1154.4	1154.4	1178.2
4397.8	32.5°	4744.7	4532.9	2753.6	1112.0	939.9	1024.7	1008.8	1003.5	992.9	963.8
4519.6	35°	4810.9	4382.0	2173.8	823.4	844.6	939.9	934.6	852.6	714.9	646.0
4829.4	37.5°	4948.6	4305.2	1599.2	635.4	789.0	897.6	868.4	669.9	519.0	452.8
5213.3	40°	5245.1	4254.9	1106.7	556.0	751.9	876.4	775.8	571.9	397.2	280.7
5806.4	42.5°	5607.8	4257.5	751.9	524.2	754.6	921.4	746.7	489.8	280.7	225.1
6598.1	45°	6095.0	4217.8	516.3	524.2	802.3	995.5	765.2	444.8	272.7	286.0
7591.0	47.5°	6619.3	4252.2	383.9	476.6	810.2	998.2	699.0	436.9	262.1	331.0
8671.2	50°	7230.9	4286.6	317.7	439.5	812.8	966.4	643.4	426.3	272.7	349.5
9910.4	52.5°	7861.0	4395.2	270.1	415.7	844.6	953.2	643.4	442.2	272.7	304.5
11488.4	55°	8801.0	4673.2	389.2	519.0	961.1	1040.5	791.7	619.6	381.3	391.9
13000.2	57.5°	9838.9	4959.2	434.2	545.4	987.6	937.3	852.6	683.1	402.5	405.1
14175.8	60°	10522.0	4969.7	431.6	532.2	924.0	810.2	834.0	720.2	410.4	346.8
14903.9	62.5°	10794.7	4646.7	450.1	532.2	860.5	757.2	855.2	775.8	423.6	434.2
15110.5	65°	10484.9	3979.5	434.2	476.6	757.2	677.8	860.5	786.4	463.3	436.9
14739.8	67°	10000.4	3428.8	442.2	452.8	704.3	643.4	905.5	826.1	537.5	524.2
14546.5	67.5°	9862.7	3283.2	439.5	439.5	685.8	632.8	916.1	826.1	548.1	542.8
12838.7	70°	8692.4	2660.9	450.1	434.2	606.3	601.0	974.4	871.1	630.2	635.4
9431.1	72.5°	6616.6	2017.6	447.5	434.2	526.9	574.6	982.3	900.2	685.8	635.4
5282.2	75°	3759.7	1207.4	394.5	378.6	415.7	500.4	918.8	857.9	667.2	569.3
2110.2	77.5°	1554.2	622.2	362.7	341.6	344.2	407.7	765.2	799.6	635.4	484.5
704.3	80°	579.8	373.3	291.2	272.7	264.8	299.2	545.4	638.1	542.8	397.2
309.8	82.5°	301.8	233.0	198.6	198.6	180.0	190.6	293.9	423.6	410.4	272.7
124.4	85°	153.6	132.4	113.9	111.2	100.6	90.0	148.3	251.5	235.6	150.9
55.6	87.5°	82.1	74.1	47.7	45.0	37.1	23.8	26.5	50.3	82.1	66.2
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>
3513.5
3881.5
4011.3
3751.8
3296.4
2848.9
2332.6
1967.2
1742.2
1620.4
1511.8
1376.8
1204.7
947.9
677.8
450.1
272.7
219.8
291.2
368.0
405.1
312.4
413.0
391.9
357.4
439.5
428.9
516.3
532.2
587.8
564.0
508.4
458.1
362.7
214.5
124.4
47.7
0.0

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