

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: P477431

Luminaire Tested: **IFLD-S-SA6B-750-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477431
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-750-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

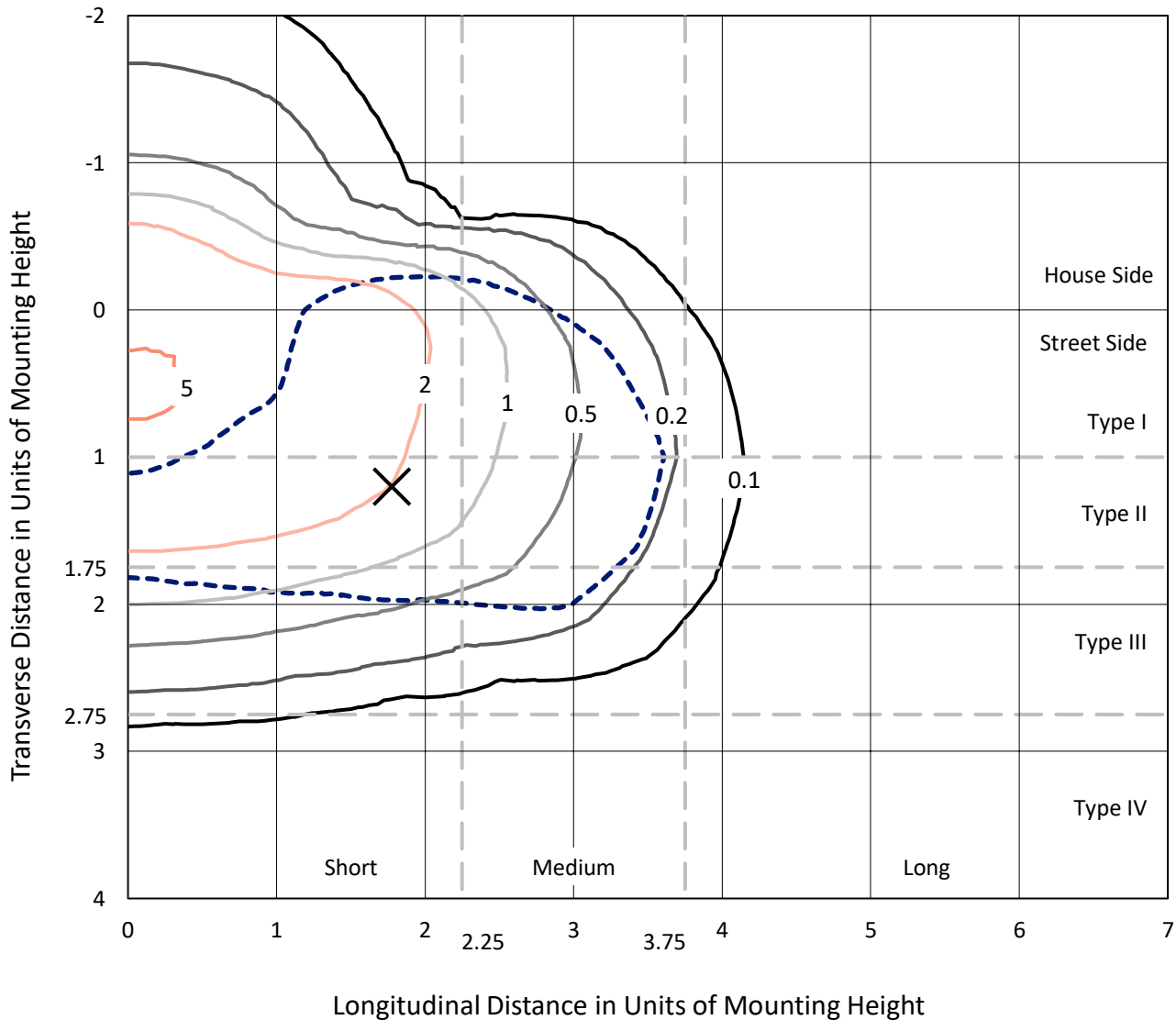
Lumens per Lamp: N/A
Luminaire Lumens: 34776.4 lumens
Efficiency: N/A
Efficacy: 142.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 244.9
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: P477431
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Iso-Footcandle Lines of Horizontal Illumination

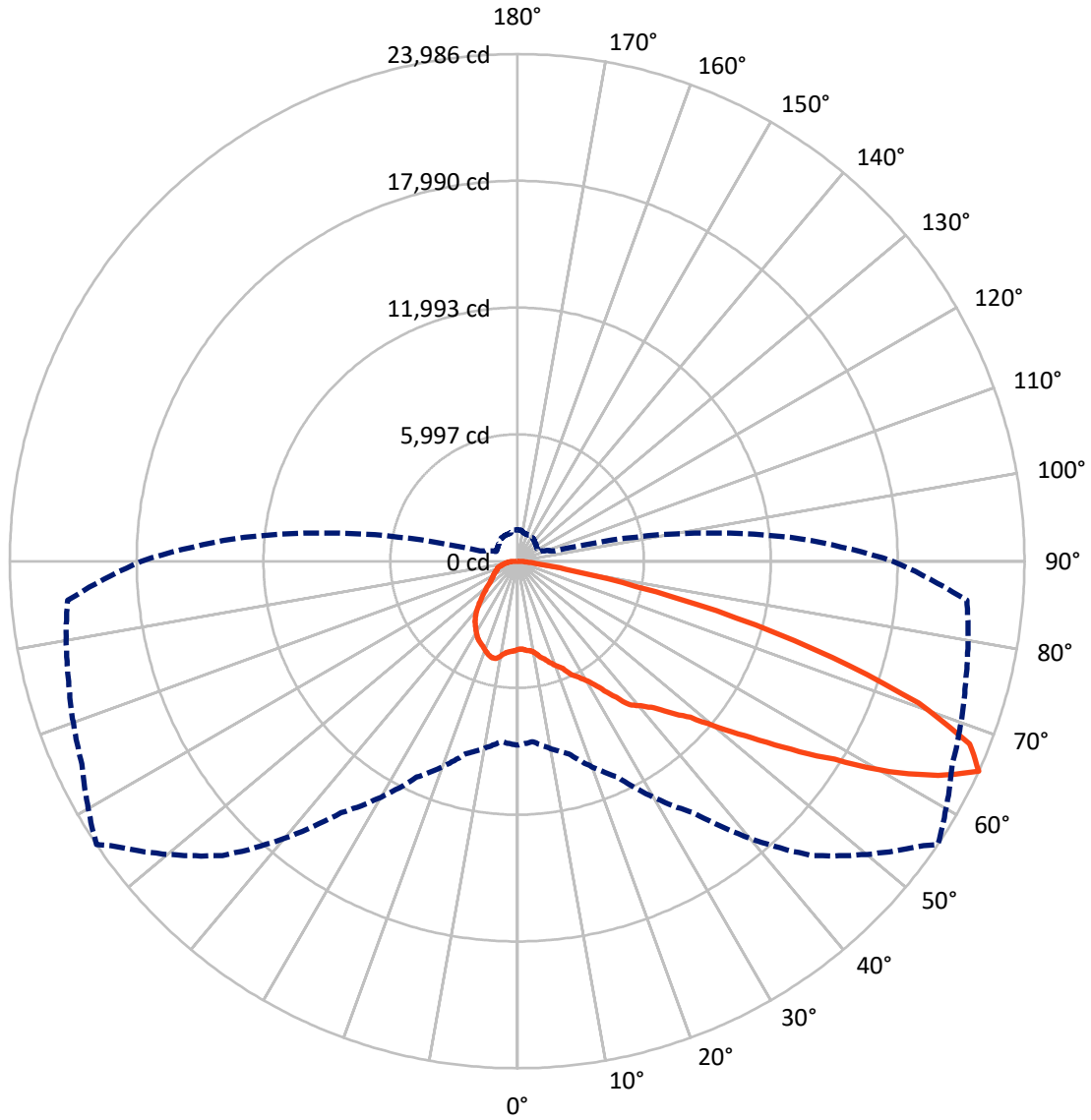
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.4 fc
 Type III - Short - N/A

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CATALOG NUMBER: IFLD-S-SA6B-750-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	7799.2	0.0	7799.2
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	26977.2	0.0	26977.2
	% Fixture	77.6	0.0	77.6
Total	Lumens	34776.4	0.0	34776.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	413.6	1.2
10°-20°	1343.2	3.9
20°-30°	2391.6	6.9
30°-40°	3581.3	10.3
40°-50°	5306.2	15.3
50°-60°	8176.1	23.5
60°-70°	9256.3	26.6
70°-80°	3841.5	11.0
80°-90°	466.7	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°	34776.4	100.0
0°-180°	34776.4	100.0

Coefficient of Utilization

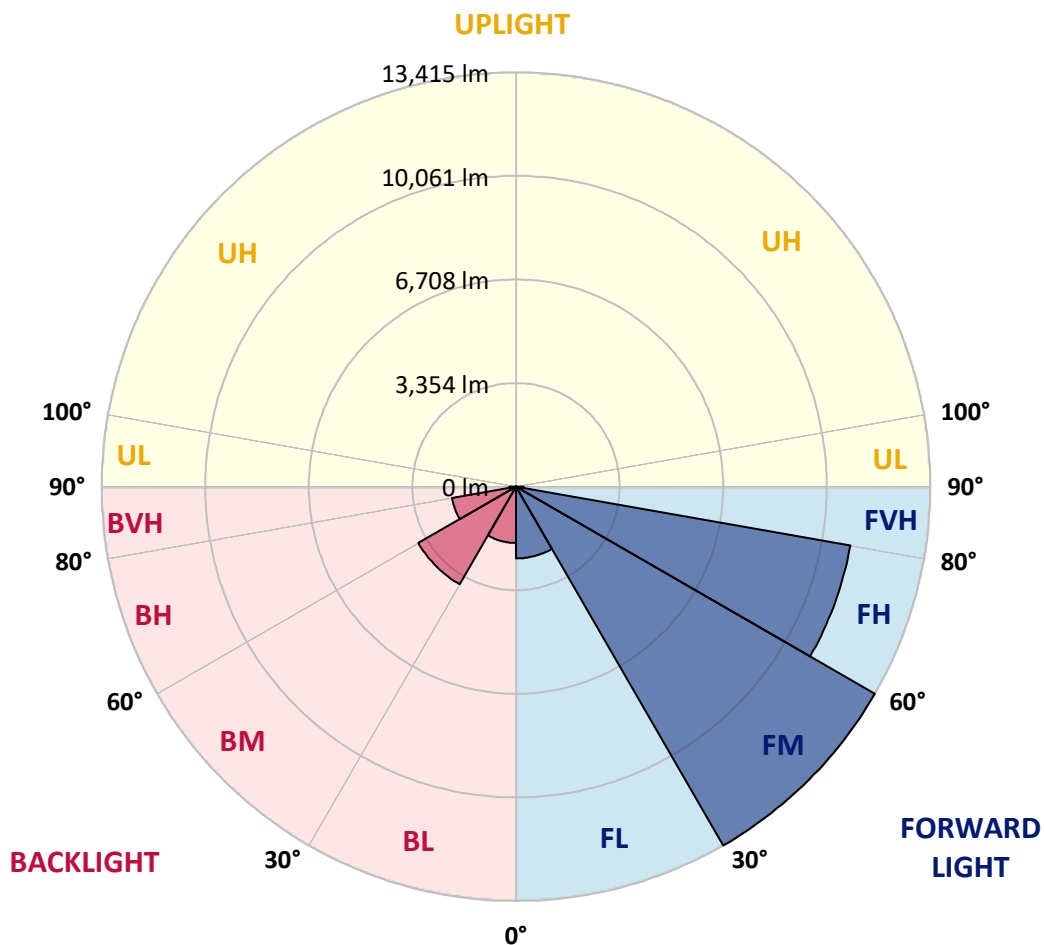


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2324.1	6.7			
FM (30°-60°)	13415.2	38.6			
FH (60°-80°)	10991.7	31.6			G4/12000
FVH (80°-90°)	246.2	0.7			G3/500
BL (0°-30°)	1824.3	5.2	B3/2500		
BM (30°-60°)	3648.3	10.5	B3/5000		
BH (60°-80°)	2106.1	6.1	B3/2500		G3/2500
BVH (80°-90°)	220.5	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-S-SA6B-750-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	4174.2	4174.2	4174.2	4174.2	4174.2	4174.2	4174.2	4174.2	4174.2	4174.2
2.5°	4065.0	4086.8	4072.3	4115.9	4152.3	4152.3	4181.4	4159.6	4188.7	4228.8
5°	4199.6	4112.3	4159.6	4181.4	4170.5	4188.7	4159.6	4232.4	4185.1	4261.5
7.5°	4232.4	4265.1	4305.2	4268.8	4301.5	4283.3	4287.0	4276.1	4250.6	4312.5
10°	4472.6	4425.3	4516.2	4461.7	4454.4	4447.1	4432.5	4378.0	4439.8	4443.5
12.5°	4749.2	4705.5	4701.8	4658.2	4716.4	4610.9	4632.7	4603.6	4614.5	4629.1
15°	4949.3	4931.1	5014.8	4963.9	4887.4	4840.1	4891.1	4811.0	4851.1	4843.8
17.5°	5346.0	5342.3	5280.5	5196.8	5153.1	5084.0	5073.0	5040.3	5069.4	5054.9
20°	5622.6	5662.6	5673.5	5575.3	5407.9	5331.4	5313.2	5287.8	5320.5	5309.6
22.5°	6044.7	5982.8	6030.2	5859.1	5797.2	5615.3	5549.8	5513.4	5669.9	5629.8
25°	6314.0	6379.5	6332.2	6274.0	6135.7	5910.1	5862.8	5942.8	6004.7	5961.0
27.5°	6921.8	6856.3	6812.6	6637.9	6546.9	6310.4	6255.8	6226.7	6241.2	6266.7
30°	7383.9	7420.3	7322.1	7198.3	6969.1	6728.9	6601.5	6576.0	6525.1	6481.4
32.5°	8042.6	7988.0	7929.8	7849.8	7653.2	7336.6	7212.9	7118.3	6965.4	6761.6
35°	8359.2	8515.7	8472.1	8257.3	8108.1	7988.0	7951.7	7806.1	7678.7	7358.5
37.5°	8886.9	8952.4	8890.6	8821.4	8752.3	8624.9	8581.2	8621.3	8370.2	7842.5
40°	9229.0	9367.3	9494.7	9301.8	9287.2	9312.7	9043.4	8996.1	8479.3	8202.8
42.5°	9927.7	9986.0	10011.4	10004.2	10087.9	10087.9	9574.7	9472.8	9105.3	8879.7
45°	10852.1	10899.4	10990.4	11055.9	10961.3	11008.6	10277.1	10237.1	9909.5	9865.9
47.5°	11652.7	11765.5	11969.3	12162.2	12285.9	12125.8	11325.2	11041.3	10957.6	11219.7
50°	12351.4	12216.8	12693.5	12890.1	13432.3	13698.0	12482.5	12369.6	12235.0	12737.2
52.5°	12420.6	12602.6	13275.8	13668.8	14786.1	15277.4	13901.7	13854.4	13690.7	14269.3
55°	12915.5	12893.7	13570.6	14422.2	15750.5	16576.6	15750.5	15721.4	15364.7	15914.2
57.5°	12831.8	13053.8	13588.8	14778.8	16620.2	17970.4	17894.0	17693.8	17195.2	17642.8
60°	12548.0	12606.2	13257.6	14767.9	17126.1	19400.6	20208.5	20248.5	19229.5	19586.2
62.5°	10939.4	11074.1	11900.2	13607.0	16765.8	20386.8	22468.4	22326.5	21511.3	21103.7
65°	8701.3	8566.7	9425.5	11270.6	14524.1	19688.1	23458.3	23986.0	22705.0	21958.9
67.5°	5335.1	5302.3	6128.4	7755.1	10866.7	16754.9	22668.6	23079.8	22373.8	21777.0
70°	2747.6	2663.9	3180.7	4327.0	6830.8	12293.2	19728.1	20132.1	20805.3	19531.6
72.5°	1281.0	1262.8	1539.4	2128.9	3479.1	7227.5	15277.4	15568.5	16987.8	16467.4
75°	753.3	764.2	920.7	1113.6	1695.9	3406.3	10138.8	10702.9	12242.3	11867.4
77.5°	564.1	564.1	655.1	775.1	989.9	1317.4	5003.9	5749.9	7158.3	6437.7
80°	414.9	422.1	502.2	582.3	687.8	680.5	1987.0	2329.1	3282.6	2805.8
82.5°	323.9	334.8	389.4	433.1	484.0	411.2	815.2	877.0	1350.1	1073.6
85°	225.6	232.9	305.7	294.8	294.8	229.3	338.4	356.6	535.0	509.5
87.5°	54.6	61.9	149.2	163.8	123.7	69.1	105.5	120.1	192.9	222.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P477431
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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4174.2	0°	4174.2	4174.2	4174.2	4174.2	4174.2	4174.2	4174.2	4174.2	4174.2	4174.2
4246.9	2.5°	4192.4	4206.9	4268.8	4236.0	4254.2	4177.8	4239.7	4188.7	4232.4	4210.6
4279.7	5°	4308.8	4276.1	4312.5	4287.0	4287.0	4316.1	4359.8	4327.0	4392.5	4363.4
4305.2	7.5°	4356.1	4359.8	4381.6	4385.2	4367.0	4458.0	4461.7	4450.7	4512.6	4498.1
4479.9	10°	4472.6	4476.2	4516.2	4538.1	4519.9	4552.6	4516.2	4487.1	4483.5	4468.9
4618.1	12.5°	4658.2	4694.6	4687.3	4705.5	4709.1	4570.8	4487.1	4345.2	4327.0	4345.2
4821.9	15°	4829.2	4814.7	4821.9	4858.3	4705.5	4483.5	4334.3	4214.2	4221.5	4225.1
5087.6	17.5°	5033.0	5043.9	5054.9	4887.4	4607.2	4345.2	4214.2	4214.2	4177.8	4192.4
5273.2	20°	5265.9	5222.3	5127.6	4891.1	4436.2	4185.1	4145.1	4145.1	4101.4	4072.3
5473.4	22.5°	5447.9	5360.5	5218.6	4778.3	4283.3	4123.2	4025.0	3955.8	3904.9	3846.6
5695.4	25°	5564.3	5517.0	5240.5	4661.8	4170.5	3959.5	3813.9	3708.3	3642.8	3566.4
5870.0	27.5°	5742.7	5651.7	5302.3	4527.2	4046.8	3795.7	3570.1	3406.3	3282.6	3202.5
6135.7	30°	5982.8	5851.8	5258.6	4334.3	3857.6	3511.8	3246.2	3035.1	2893.2	2827.7
6386.8	32.5°	6179.4	6008.3	5222.3	4159.6	3646.5	3224.3	2871.3	2656.6	2576.6	2492.9
6808.9	35°	6554.2	6215.8	5196.8	4061.3	3457.2	2936.8	2565.6	2380.0	2278.1	2154.4
7060.1	37.5°	6841.7	6576.0	5134.9	3857.6	3213.4	2656.6	2332.7	2165.3	2012.5	1881.5
7642.3	40°	7293.0	7078.2	5138.6	3570.1	2925.9	2416.4	2150.8	1976.1	1783.2	1670.4
8504.8	42.5°	8140.9	7573.2	5160.4	3340.8	2602.0	2219.9	1987.0	1779.6	1586.7	1492.1
9487.4	45°	9181.7	8253.7	5025.7	3133.4	2270.9	2034.3	1790.5	1583.1	1459.3	1390.2
10823.0	47.5°	10379.0	8919.7	4843.8	2744.0	1994.3	1837.8	1608.5	1488.4	1397.5	1357.4
12544.3	50°	11718.2	9873.2	4792.8	2387.3	1779.6	1670.4	1521.2	1430.2	1368.3	1321.0
14484.0	52.5°	13443.2	10983.1	4690.9	2019.8	1594.0	1535.7	1488.4	1426.6	1372.0	1331.9
16292.7	55°	15091.8	12213.2	4581.8	1717.7	1463.0	1470.2	1495.7	1441.1	1393.8	1331.9
18319.7	57.5°	16947.8	13468.7	4177.8	1495.7	1364.7	1437.5	1488.4	1426.6	1379.3	1331.9
20394.1	60°	18094.1	14174.7	3388.1	1302.8	1277.4	1375.6	1444.8	1379.3	1328.3	1346.5
21347.6	62.5°	18559.9	13803.5	2554.7	1182.7	1215.5	1291.9	1375.6	1350.1	1313.8	1382.9
21336.6	65°	17766.6	12948.3	1826.9	1080.8	1131.8	1208.2	1313.8	1342.9	1353.8	1488.4
19597.1	67.5°	15808.7	11274.2	1342.9	997.1	1044.5	1157.3	1357.4	1404.7	1397.5	1564.9
16445.6	70°	12649.9	8817.8	1048.1	928.0	1011.7	1197.3	1419.3	1419.3	1368.3	1564.9
12544.3	72.5°	9203.5	6215.8	902.5	847.9	928.0	1099.0	1412.0	1408.4	1342.9	1430.2
7988.0	75°	5571.6	3617.4	797.0	767.9	797.0	942.6	1350.1	1328.3	1237.3	1230.1
3843.0	77.5°	2776.7	1819.6	651.4	680.5	695.1	789.7	1186.4	1219.1	1095.4	1066.3
1517.5	80°	1171.8	793.3	542.2	585.9	585.9	666.0	986.2	1008.1	909.8	855.2
600.5	82.5°	535.0	454.9	462.2	509.5	476.7	516.8	782.4	807.9	738.8	647.8
254.7	85°	225.6	258.4	353.0	400.3	353.0	334.8	538.6	567.7	480.4	400.3
109.2	87.5°	101.9	141.9	222.0	291.1	178.3	156.5	287.5	298.4	240.2	178.3
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>
4174.2
4170.5
4323.4
4476.2
4468.9
4352.5
4276.1
4196.0
4028.6
3813.9
3581.0
3238.9
2864.1
2489.2
2143.5
1885.1
1681.3
1499.4
1404.7
1350.1
1328.3
1328.3
1328.3
1328.3
1331.9
1364.7
1488.4
1575.8
1532.1
1379.3
1215.5
1048.1
837.0
633.2
404.0
167.4
0.0

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