

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: P477940

Luminaire Tested: **IFLD-S-SA6D-830-U-T3R**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477940  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6D-830-U-T3R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens  
Light Source: (96) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

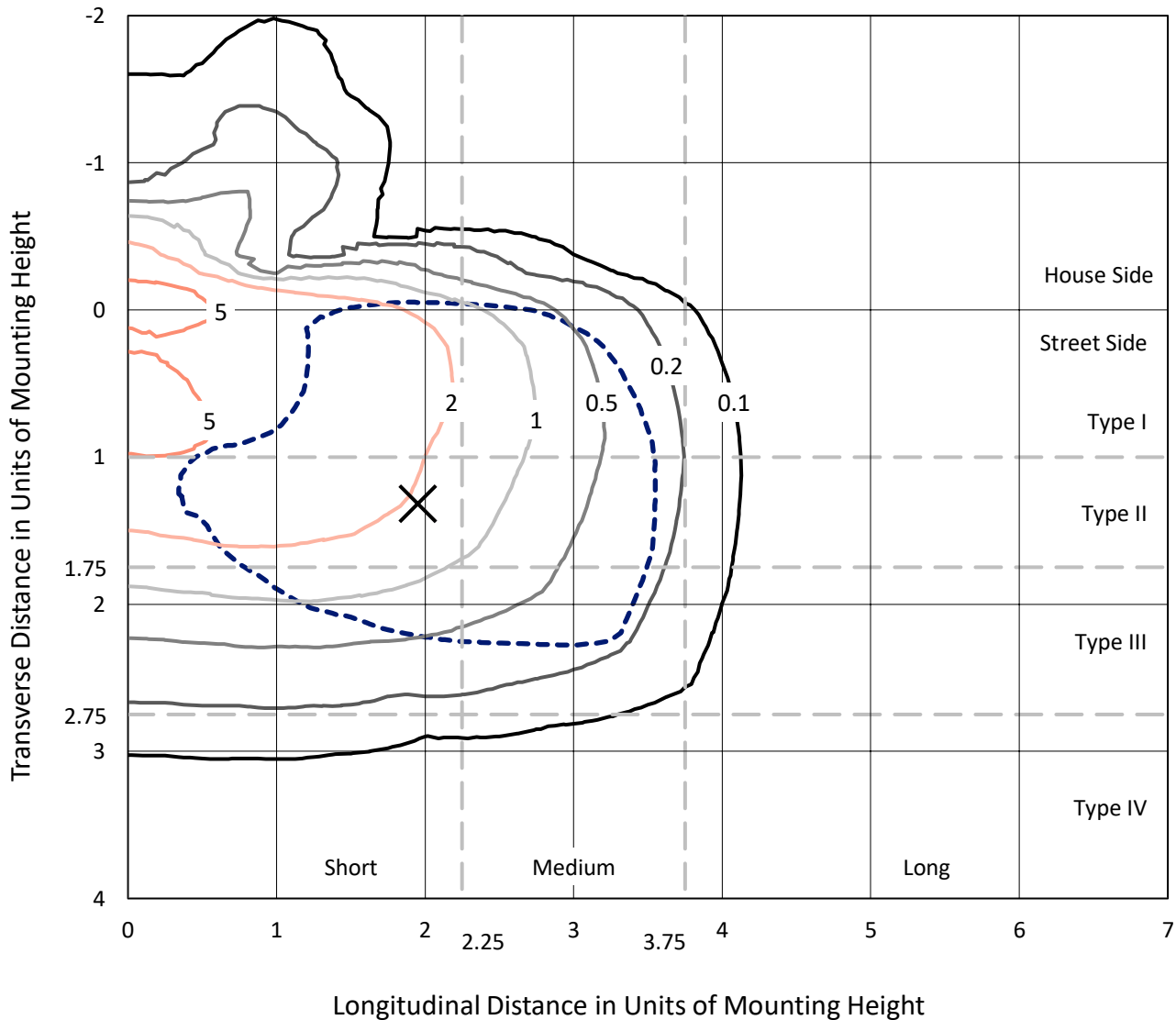
Lumens per Lamp: N/A  
Luminaire Lumens: 35687.4 lumens  
Efficiency: N/A  
Efficacy: 96.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 368.2  
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

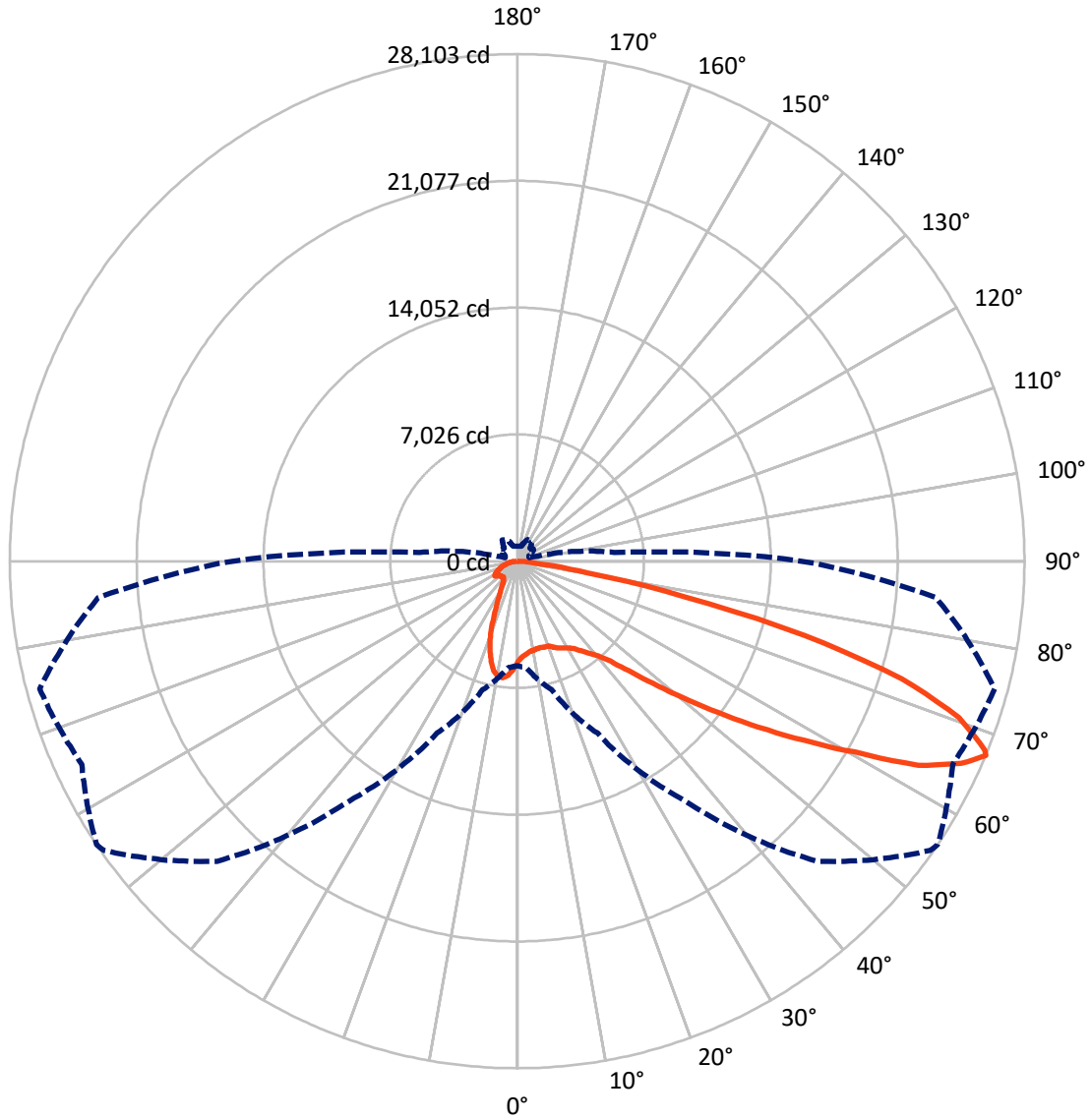
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.9 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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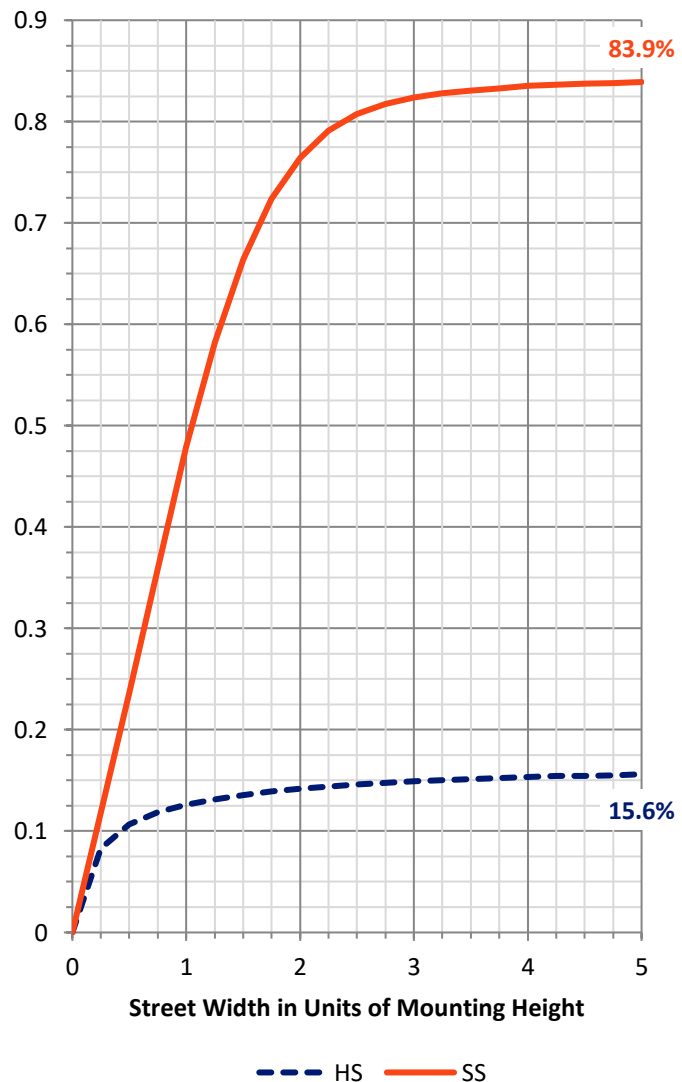
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5649.7	0.0	5649.7
	% Fixture	15.8	0.0	15.8
<b>Street Side</b>	Lumens	30037.7	0.0	30037.7
	% Fixture	84.2	0.0	84.2
<b>Total</b>	Lumens	35687.4	0.0	35687.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	535.0	1.5
10°-20°	1459.4	4.1
20°-30°	2288.8	6.4
30°-40°	3267.3	9.2
40°-50°	4931.2	13.8
50°-60°	7849.7	22.0
60°-70°	10035.2	28.1
70°-80°	4892.8	13.7
80°-90°	428.0	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°	35687.4	100.0
0°-180°	35687.4	100.0

**Coefficient of Utilization**

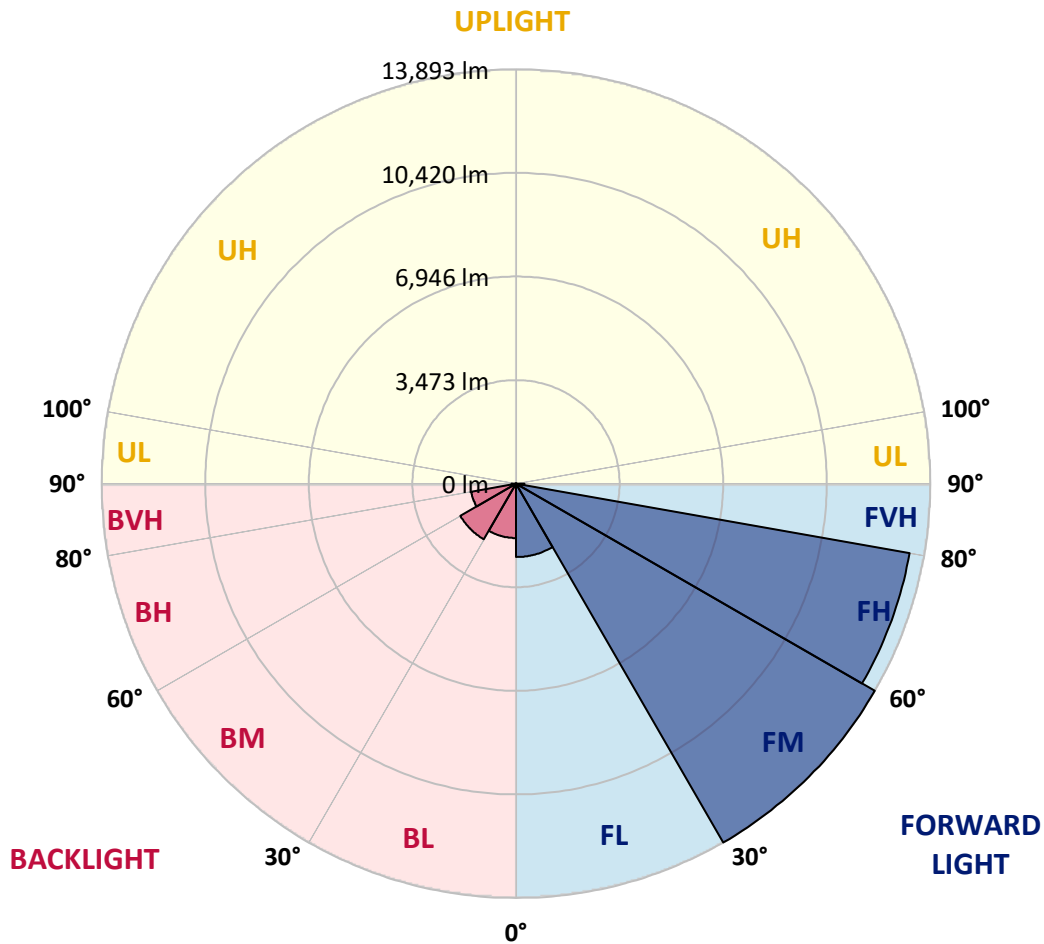


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2459.3	6.9			
FM (30°-60°)	13892.8	38.9			
FH (60°-80°)	13401.4	37.6			G5
FVH (80°-90°)	284.3	0.8			G3/500
BL (0°-30°)	1823.9	5.1	B3/2500		
BM (30°-60°)	2155.4	6.0	B2/2500		
BH (60°-80°)	1526.6	4.3	B3/2500		G3/2500
BVH (80°-90°)	143.8	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	5552.9	5552.9	5552.9	5552.9	5552.9	5552.9	5552.9	5552.9	5552.9	5552.9
2.5°	5100.9	5080.0	5105.1	5080.0	5193.0	5259.9	5280.9	5310.2	5414.8	5515.2
5°	4887.5	4795.5	4895.9	4929.4	4937.7	5050.7	5167.9	5188.8	5243.2	5406.4
7.5°	4531.8	4636.5	4598.8	4699.2	4803.8	4916.8	5109.3	5054.9	5255.8	5410.6
10°	4456.5	4464.9	4506.7	4544.4	4636.5	4782.9	5050.7	5017.2	5222.3	5552.9
12.5°	4531.8	4531.8	4519.3	4490.0	4594.6	4736.9	4950.3	4967.0	5289.2	5594.7
15°	4795.5	4845.7	4711.8	4732.7	4690.9	4736.9	4925.2	4962.8	5314.3	5628.2
17.5°	5439.9	5423.1	5264.1	5042.4	4858.2	4828.9	4958.7	5000.5	5289.2	5724.4
20°	6067.6	6034.1	5757.9	5527.8	5163.7	4992.1	5013.1	5017.2	5331.1	5787.2
22.5°	6766.4	6854.3	6553.0	6084.3	5632.4	5205.6	5121.9	5188.8	5427.3	5820.7
25°	7862.7	7674.4	7415.0	6799.9	6071.7	5536.1	5301.8	5335.3	5519.4	5904.4
27.5°	8653.6	8578.3	8172.4	7674.4	6686.9	5795.6	5398.0	5460.8	5686.8	5900.2
30°	9415.2	9415.2	9168.3	8423.5	7335.5	6230.8	5603.1	5573.8	5607.3	5891.8
32.5°	10306.5	10185.1	9829.5	9335.7	8151.5	6628.3	5766.3	5774.6	5774.6	6046.6
35°	10775.2	10971.8	10733.3	9929.9	8775.0	7289.4	6159.6	6096.9	6050.8	6218.2
37.5°	11461.4	11578.6	11327.5	10854.7	9549.1	7825.1	6506.9	6456.7	6188.9	6352.1
40°	11875.7	11854.8	11846.4	11628.8	10574.3	8456.9	7017.5	6887.7	6527.9	6825.0
42.5°	12110.0	12068.2	12582.9	12449.0	11540.9	9385.9	7657.7	7586.5	7189.0	7666.1
45°	12373.6	12683.3	13105.9	13482.5	12666.6	10691.5	8741.5	8641.0	8285.4	8892.1
47.5°	12603.8	12984.6	13524.4	13926.1	13683.4	12110.0	10080.5	10105.6	9871.3	10494.8
50°	12988.8	13026.4	13758.7	14570.5	14758.8	13419.8	11879.9	11838.0	11733.4	12608.0
52.5°	12871.6	12984.6	13909.4	14947.1	15256.8	14804.9	13813.1	13938.7	13800.6	14901.1
55°	10963.5	11302.4	13817.3	15344.7	16436.8	16369.9	16298.7	16215.0	16206.7	17478.8
57.5°	10097.3	10373.4	12172.8	15784.0	17700.5	18194.3	18654.6	18746.7	18742.5	20278.2
60°	9528.2	9812.7	11507.4	15545.5	18776.0	20583.7	21466.6	21479.2	21454.1	23270.1
62.5°	8415.1	8691.3	10356.7	14239.9	19073.1	22788.9	24755.7	24918.9	23768.1	25847.8
65°	7076.0	7302.0	8770.8	12243.9	18282.2	24190.7	27228.7	27036.2	25718.1	27320.8
67°	5787.2	5937.8	7369.0	10511.5	16215.0	23517.0	27944.3	28103.3	26617.8	27383.5
67.5°	5419.0	5557.1	6908.7	9921.5	15428.3	23006.5	27969.4	27944.3	26634.5	27396.1
70°	3761.9	3820.5	4707.6	6825.0	11365.2	19437.1	25927.3	25985.9	25517.2	25910.6
72.5°	2494.0	2581.9	3146.8	4301.7	6699.4	14143.7	21671.7	22299.3	22002.2	21244.8
75°	1606.9	1657.1	2058.8	2560.9	3297.4	8055.2	16010.0	16428.4	15746.4	13139.4
77.5°	899.7	954.1	1242.8	1556.6	1606.9	3351.8	8992.5	9511.4	8059.4	5582.2
80°	560.7	631.9	937.3	924.8	765.8	1230.3	3707.5	3971.1	3222.1	1920.7
82.5°	422.6	477.0	723.9	648.6	431.0	548.2	1389.3	1489.7	1180.0	740.7
85°	288.7	364.1	523.1	401.7	226.0	263.6	552.4	594.2	539.8	359.9
87.5°	104.6	154.8	272.0	200.9	100.4	79.5	179.9	200.9	192.5	163.2
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°
5552.9	0°	5552.9	5552.9	5552.9	5552.9	5552.9	5552.9	5552.9	5552.9	5552.9	5552.9
5603.1	2.5°	5682.6	5741.2	5770.5	5942.0	6013.2	6000.6	6017.3	6042.5	6067.6	6101.0
5674.2	5°	5728.6	5908.6	6004.8	6205.7	6339.6	6281.0	6356.3	6335.4	6306.1	6301.9
5803.9	7.5°	5879.3	6109.4	6398.1	6452.5	6511.1	6364.7	6239.1	6067.6	6025.7	5879.3
5912.7	10°	6147.1	6335.4	6686.9	6707.8	6448.4	6071.7	5791.4	5435.7	5431.5	5218.1
6080.1	12.5°	6402.3	6615.7	6900.3	6778.9	6159.6	5644.9	5188.8	4799.7	4636.5	4527.7
6180.5	15°	6561.3	6912.8	7063.5	6540.4	5653.3	4958.7	4368.6	3950.2	3782.8	3703.3
6306.1	17.5°	6707.8	7197.4	7130.4	6122.0	5029.8	4251.5	3548.5	3184.4	3138.4	3079.8
6506.9	20°	6908.7	7302.0	6891.9	5578.0	4322.6	3339.3	2891.5	2715.8	2757.6	2782.7
6527.9	22.5°	7097.0	7356.4	6590.6	4983.8	3414.6	2644.6	2422.8	2460.5	2523.3	2607.0
6578.1	25°	7180.6	7444.3	6184.7	4163.6	2598.6	2226.2	2176.0	2238.7	2343.3	2347.5
6649.2	27.5°	7235.0	7381.5	5695.1	3364.4	2054.6	1945.8	2021.1	2067.2	2079.7	2129.9
6799.9	30°	7331.3	7251.8	5075.8	2406.1	1724.0	1728.2	1824.5	1824.5	1824.5	1862.1
6950.5	32.5°	7498.7	7163.9	4351.9	1757.5	1485.5	1619.4	1594.3	1585.9	1569.2	1523.2
7143.0	35°	7603.3	6925.4	3435.5	1301.4	1334.9	1485.5	1477.1	1347.4	1129.8	1021.0
7632.6	37.5°	7820.9	6804.0	2527.5	1004.3	1247.0	1418.6	1372.5	1058.7	820.2	715.6
8239.3	40°	8289.5	6724.5	1749.1	878.8	1188.4	1385.1	1226.1	903.9	627.7	443.6
9176.7	42.5°	8862.8	6728.7	1188.4	828.5	1192.6	1456.2	1180.0	774.1	443.6	355.7
10427.8	45°	9632.8	6666.0	816.0	828.5	1267.9	1573.4	1209.3	703.0	431.0	451.9
11997.0	47.5°	10461.3	6720.3	606.8	753.2	1280.5	1577.6	1104.7	690.4	414.3	523.1
13704.3	50°	11427.9	6774.7	502.1	694.6	1284.6	1527.4	1016.8	673.7	431.0	552.4
15662.7	52.5°	12423.9	6946.3	426.8	657.0	1334.9	1506.4	1016.8	698.8	431.0	481.2
18156.7	55°	13909.4	7385.7	615.1	820.2	1519.0	1644.5	1251.2	979.2	602.6	619.3
20546.0	57.5°	15549.7	7837.6	686.3	862.0	1560.8	1481.3	1347.4	1079.6	636.0	640.2
22404.0	60°	16629.3	7854.4	682.1	841.1	1460.4	1280.5	1318.1	1138.2	648.6	548.2
23554.7	62.5°	17060.3	7343.8	711.4	841.1	1360.0	1196.8	1351.6	1226.1	669.5	686.3
23881.1	65°	16570.7	6289.3	686.3	753.2	1196.8	1071.2	1360.0	1242.8	732.3	690.4
23295.3	67°	15805.0	5419.0	698.8	715.6	1113.1	1016.8	1431.1	1305.6	849.5	828.5
22989.8	67.5°	15587.4	5188.8	694.6	694.6	1083.8	1000.1	1447.8	1305.6	866.2	857.8
20290.8	70°	13737.8	4205.4	711.4	686.3	958.3	949.9	1539.9	1376.7	995.9	1004.3
14905.3	72.5°	10457.1	3188.6	707.2	686.3	832.7	908.0	1552.5	1422.7	1083.8	1004.3
8348.1	75°	5942.0	1908.1	623.5	598.4	657.0	790.9	1452.0	1355.8	1054.5	899.7
3335.1	77.5°	2456.3	983.4	573.3	539.8	544.0	644.4	1209.3	1263.7	1004.3	765.8
1113.1	80°	916.4	590.0	460.3	431.0	418.5	472.9	862.0	1008.5	857.8	627.7
489.6	82.5°	477.0	368.2	313.8	313.8	284.5	301.3	464.5	669.5	648.6	431.0
196.7	85°	242.7	209.2	179.9	175.8	159.0	142.3	234.3	397.5	372.4	238.5
87.9	87.5°	129.7	117.2	75.3	71.1	58.6	37.7	41.8	79.5	129.7	104.6
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>
5552.9
6134.5
6339.6
5929.5
5209.7
4502.6
3686.6
3109.1
2753.4
2560.9
2389.4
2176.0
1904.0
1498.1
1071.2
711.4
431.0
347.3
460.3
581.6
640.2
493.8
652.8
619.3
564.9
694.6
677.9
<b>816.0</b>
841.1
929.0
891.3
803.4
723.9
573.3
338.9
196.7
75.3
0.0

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