

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: P477831

Luminaire Tested: **IFLD-L-SA7B-750-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477831
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-750-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

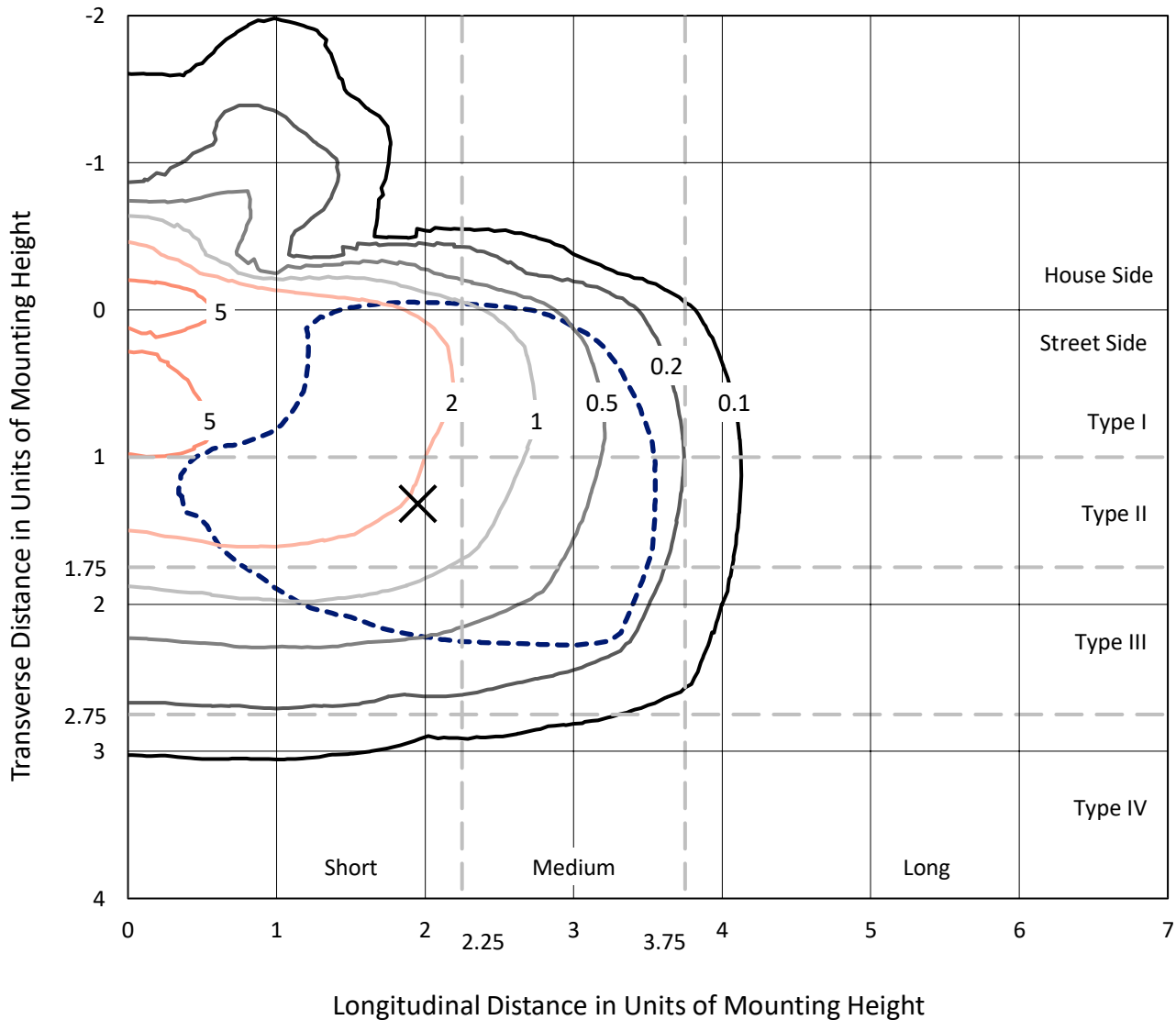
Lumens per Lamp: N/A
Luminaire Lumens: 35782.7 lumens
Efficiency: N/A
Efficacy: 127.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 281
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

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Iso-Footcandle Lines of Horizontal Illumination

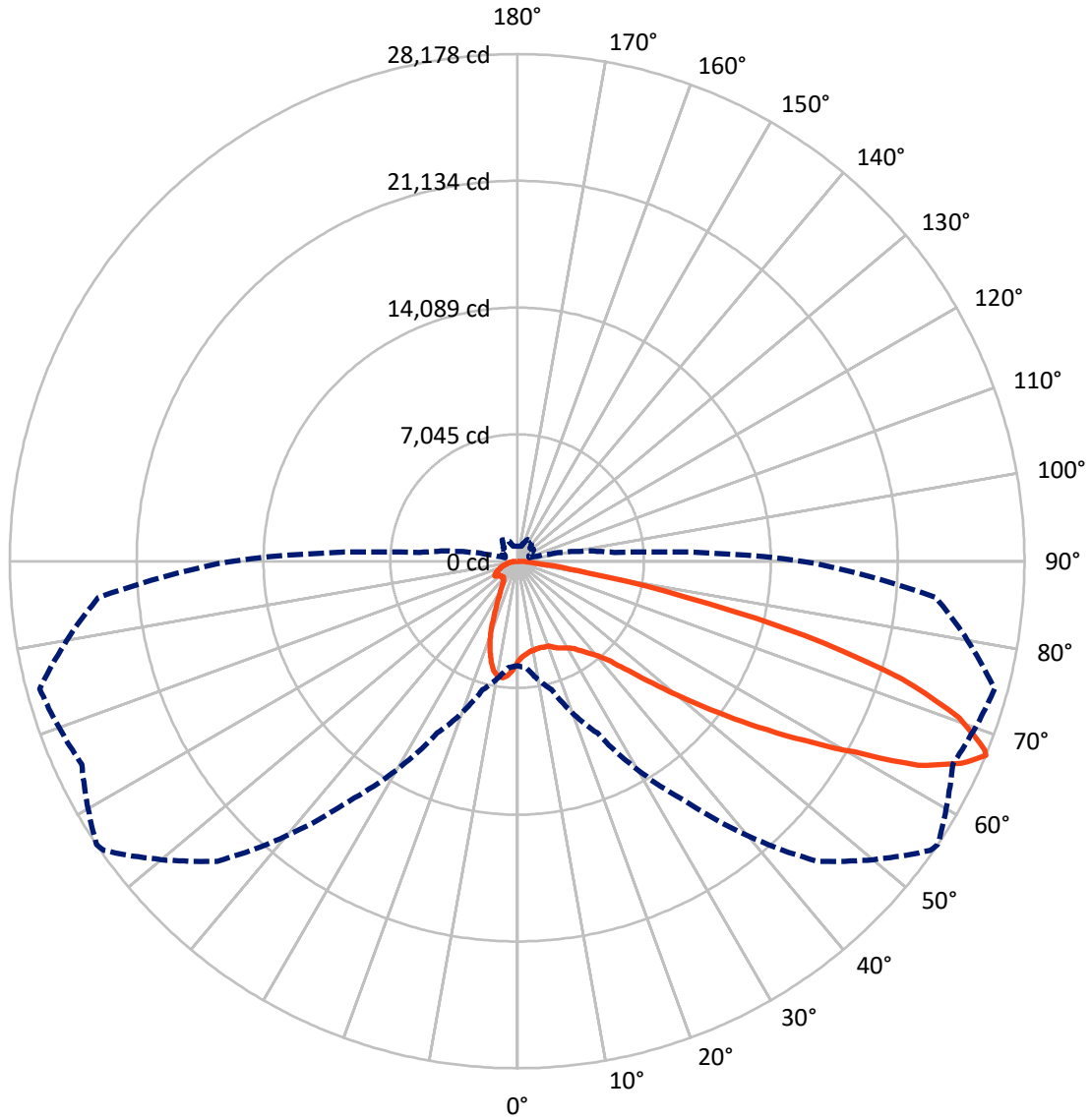
✕ Max cd
 - - - 1/2 Max cd



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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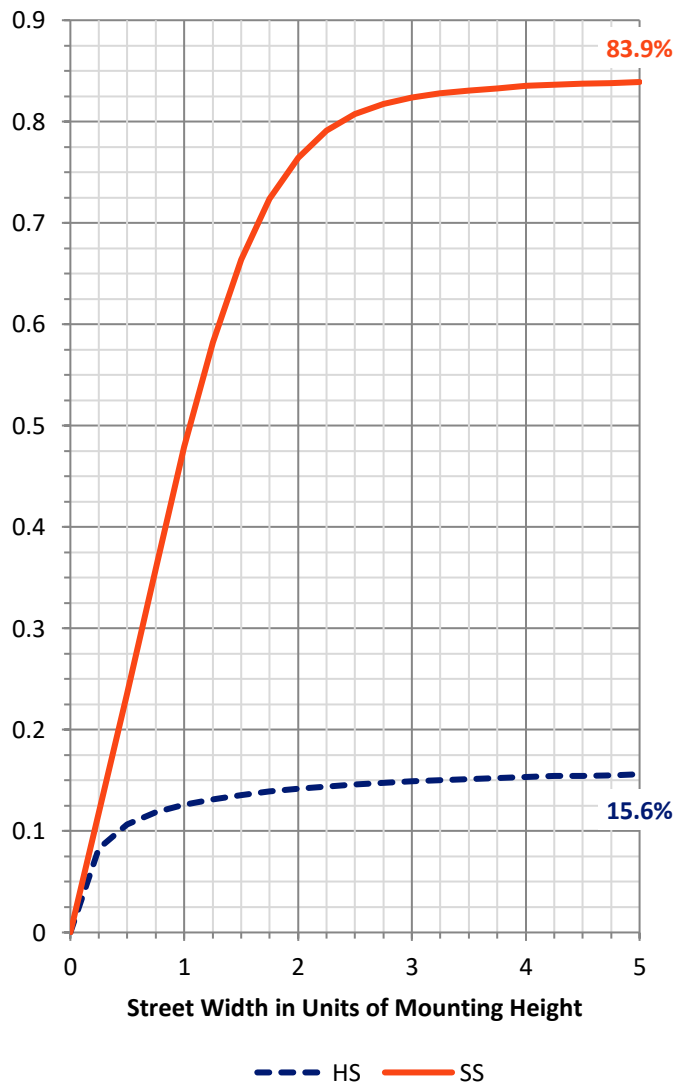
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5664.8	0.0	5664.8
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	30117.9	0.0	30117.9
	% Fixture	84.2	0.0	84.2
Total	Lumens	35782.7	0.0	35782.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	536.4	1.5
10°-20°	1463.3	4.1
20°-30°	2294.9	6.4
30°-40°	3276.0	9.2
40°-50°	4944.4	13.8
50°-60°	7870.7	22.0
60°-70°	10062.0	28.1
70°-80°	4905.9	13.7
80°-90°	429.2	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°	35782.7	100.0
0°-180°	35782.7	100.0

Coefficient of Utilization

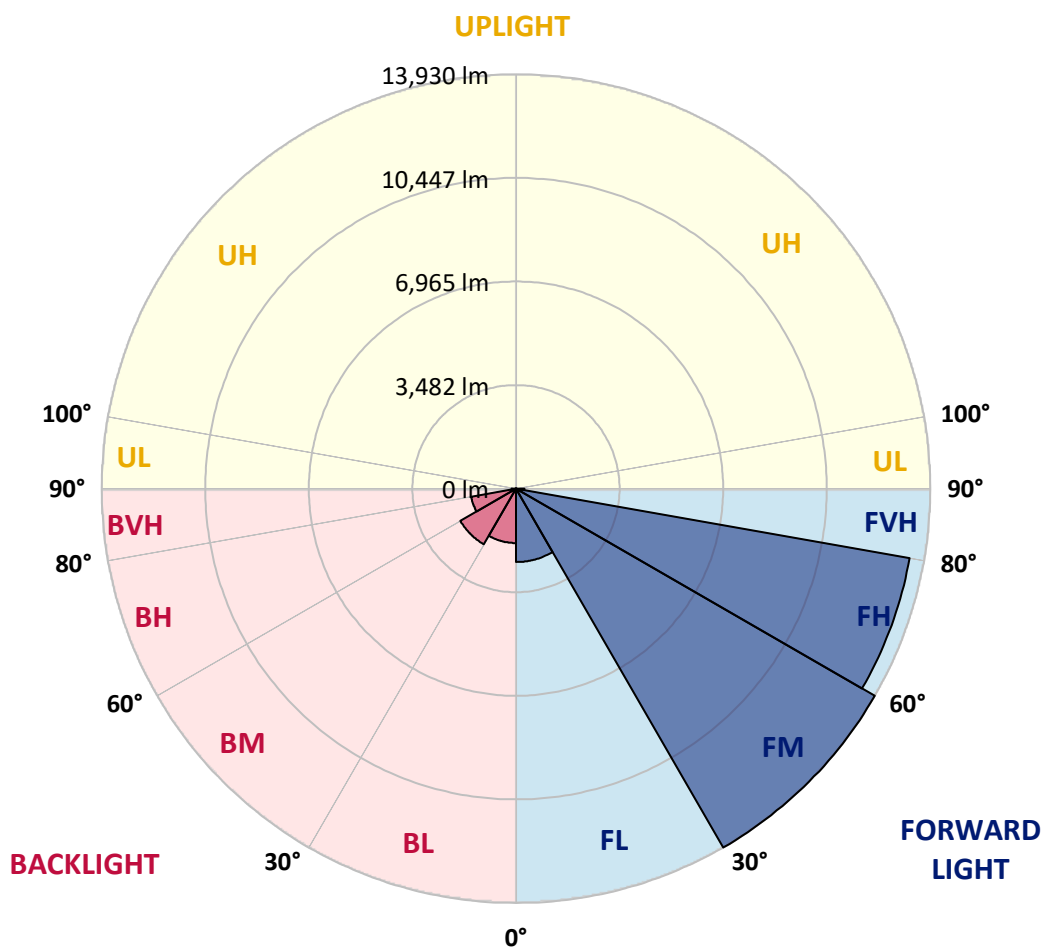


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2465.8	6.9			
FM (30°-60°)	13929.9	38.9			
FH (60°-80°)	13437.2	37.6			G5
FVH (80°-90°)	285.0	0.8			G3/500
BL (0°-30°)	1828.7	5.1	B3/2500		
BM (30°-60°)	2161.2	6.0	B2/2500		
BH (60°-80°)	1530.7	4.3	B3/2500		G3/2500
BVH (80°-90°)	144.1	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°	5567.7	5567.7	5567.7	5567.7	5567.7	5567.7	5567.7	5567.7	5567.7	5567.7
2.5°	5114.6	5093.6	5118.8	5093.6	5206.9	5274.0	5295.0	5324.3	5429.2	5529.9
5°	4900.6	4808.3	4909.0	4942.5	4950.9	5064.2	5181.7	5202.7	5257.2	5420.8
7.5°	4543.9	4648.8	4611.1	4711.8	4816.7	4929.9	5123.0	5068.4	5269.8	5425.0
10°	4468.4	4476.8	4518.8	4556.5	4648.8	4795.7	5064.2	5030.6	5236.2	5567.7
12.5°	4543.9	4543.9	4531.4	4502.0	4606.9	4749.5	4963.5	4980.3	5303.4	5609.7
15°	4808.3	4858.6	4724.4	4745.3	4703.4	4749.5	4938.3	4976.1	5328.5	5643.2
17.5°	5454.4	5437.6	5278.2	5055.8	4871.2	4841.8	4971.9	5013.9	5303.4	5739.7
20°	6083.8	6050.2	5773.3	5542.5	5177.5	5005.5	5026.5	5030.6	5345.3	5802.7
22.5°	6784.4	6872.6	6570.5	6100.5	5647.4	5219.5	5135.5	5202.7	5441.8	5836.2
25°	7883.7	7694.9	7434.8	6818.0	6088.0	5550.9	5316.0	5349.5	5534.1	5920.1
27.5°	8676.7	8601.2	8194.2	7694.9	6704.7	5811.0	5412.5	5475.4	5702.0	5915.9
30°	9440.3	9440.3	9192.8	8445.9	7355.1	6247.4	5618.0	5588.7	5622.2	5907.5
32.5°	10334.0	10212.3	9855.7	9360.6	8173.2	6646.0	5781.7	5790.1	5790.1	6062.8
35°	10803.9	11001.1	10762.0	9956.4	8798.4	7308.9	6176.1	6113.1	6067.0	6234.8
37.5°	11492.0	11609.5	11357.8	10883.6	9574.6	7846.0	6524.3	6474.0	6205.4	6369.1
40°	11907.4	11886.4	11878.0	11659.9	10602.5	8479.5	7036.2	6906.1	6545.3	6843.2
42.5°	12142.4	12100.4	12616.5	12482.2	11571.7	9411.0	7678.1	7606.8	7208.2	7686.5
45°	12406.7	12717.2	13140.9	13518.5	12700.4	10720.0	8764.8	8664.1	8307.5	8915.9
47.5°	12637.5	13019.3	13560.5	13963.3	13719.9	12142.4	10107.4	10132.6	9897.7	10522.8
50°	13023.5	13061.2	13795.5	14609.4	14798.2	13455.6	11911.6	11869.6	11764.7	12641.6
52.5°	12906.0	13019.3	13946.5	14987.0	15297.5	14844.4	13850.0	13975.9	13837.4	14940.9
55°	10992.7	11332.6	13854.2	15385.6	16480.7	16413.6	16342.3	16258.3	16250.0	17525.4
57.5°	10124.2	10401.1	12205.3	15826.2	17747.8	18242.9	18704.4	18796.7	18792.5	20332.4
60°	9553.6	9838.9	11538.2	15587.0	18826.1	20638.7	21523.9	21536.5	21511.4	23332.3
62.5°	8437.6	8714.5	10384.4	14278.0	19124.0	22849.8	24821.8	24985.4	23831.6	25916.8
65°	7094.9	7321.5	8794.2	12276.6	18331.0	24255.3	27301.4	27108.4	25786.8	27393.7
67°	5802.7	5953.7	7388.6	10539.6	16258.3	23579.8	28018.9	28178.3	26688.9	27456.7
67.5°	5433.4	5571.9	6927.1	9948.0	15469.6	23068.0	28044.1	28018.9	26705.6	27469.3
70°	3771.9	3830.7	4720.2	6843.2	11395.5	19489.0	25996.6	26055.3	25585.4	25979.8
72.5°	2500.6	2588.7	3155.2	4313.2	6717.3	14181.5	21729.5	22358.9	22061.0	21301.6
75°	1611.1	1661.5	2064.3	2567.8	3306.2	8076.7	16052.8	16472.3	15788.4	13174.5
77.5°	902.1	956.6	1246.1	1560.8	1611.1	3360.8	9016.6	9536.8	8080.9	5597.1
80°	562.2	633.6	939.8	927.2	767.8	1233.5	3717.4	3981.7	3230.7	1925.8
82.5°	423.8	478.3	725.9	650.3	432.2	549.6	1393.0	1493.7	1183.2	742.6
85°	289.5	365.0	524.5	402.8	226.6	264.3	553.8	595.8	541.2	360.8
87.5°	104.9	155.2	272.7	201.4	100.7	79.7	180.4	201.4	193.0	163.6
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°
5567.7	0°	5567.7	5567.7	5567.7	5567.7	5567.7	5567.7	5567.7	5567.7	5567.7	5567.7
5618.0	2.5°	5697.8	5756.5	5785.9	5957.9	6029.2	6016.6	6033.4	6058.6	6083.8	6117.3
5689.4	5°	5743.9	5924.3	6020.8	6222.2	6356.5	6297.7	6373.3	6352.3	6322.9	6318.7
5819.4	7.5°	5895.0	6125.7	6415.2	6469.8	6528.5	6381.7	6255.8	6083.8	6041.8	5895.0
5928.5	10°	6163.5	6352.3	6704.7	6725.7	6465.6	6088.0	5806.9	5450.2	5446.0	5232.0
6096.4	12.5°	6419.4	6633.4	6918.7	6797.0	6176.1	5660.0	5202.7	4812.5	4648.8	4539.7
6197.1	15°	6578.9	6931.3	7082.3	6557.9	5668.4	4971.9	4380.3	3960.7	3792.9	3713.2
6322.9	17.5°	6725.7	7216.6	7149.5	6138.3	5043.2	4262.8	3558.0	3192.9	3146.8	3088.0
6524.3	20°	6927.1	7321.5	6910.3	5592.9	4334.2	3348.2	2899.2	2723.0	2765.0	2790.1
6545.3	22.5°	7115.9	7376.0	6608.2	4997.1	3423.7	2651.7	2429.3	2467.1	2530.0	2613.9
6595.6	25°	7199.8	7464.2	6201.2	4174.7	2605.5	2232.1	2181.8	2244.7	2349.6	2353.8
6667.0	27.5°	7254.4	7401.2	5710.3	3373.3	2060.1	1951.0	2026.5	2072.7	2085.3	2135.6
6818.0	30°	7350.9	7271.2	5089.4	2412.5	1728.6	1732.8	1829.3	1829.3	1829.3	1867.1
6969.1	32.5°	7518.7	7183.0	4363.5	1762.2	1489.5	1623.7	1598.6	1590.2	1573.4	1527.2
7162.1	35°	7623.6	6943.9	3444.7	1304.9	1338.4	1489.5	1481.1	1351.0	1132.8	1023.8
7653.0	37.5°	7841.8	6822.2	2534.2	1007.0	1250.3	1422.3	1376.2	1061.5	822.4	717.5
8261.3	40°	8311.7	6742.5	1753.8	881.1	1191.6	1388.8	1229.3	906.3	629.4	444.7
9201.2	42.5°	8886.5	6746.7	1191.6	830.7	1195.8	1460.1	1183.2	776.2	444.7	356.6
10455.7	45°	9658.5	6683.8	818.2	830.7	1271.3	1577.6	1212.6	704.9	432.2	453.1
12029.1	47.5°	10489.3	6738.3	608.4	755.2	1283.9	1581.8	1107.7	692.3	415.4	524.5
13740.9	50°	11458.5	6792.8	503.5	696.5	1288.1	1531.4	1019.6	675.5	432.2	553.8
15704.5	52.5°	12457.0	6964.9	428.0	658.7	1338.4	1510.5	1019.6	700.7	432.2	482.5
18205.1	55°	13946.5	7405.4	616.8	822.4	1523.0	1648.9	1254.5	981.8	604.2	621.0
20600.9	57.5°	15591.2	7858.5	688.1	864.3	1565.0	1485.3	1351.0	1082.5	637.7	641.9
22463.8	60°	16673.7	7875.3	683.9	843.3	1464.3	1283.9	1321.6	1141.2	650.3	549.6
23617.6	62.5°	17105.9	7363.5	713.3	843.3	1363.6	1200.0	1355.2	1229.3	671.3	688.1
23944.9	65°	16615.0	6306.1	688.1	755.2	1200.0	1074.1	1363.6	1246.1	734.2	692.3
23357.5	67°	15847.2	5433.4	700.7	717.5	1116.1	1019.6	1434.9	1309.1	851.7	830.7
23051.2	67.5°	15629.0	5202.7	696.5	696.5	1086.7	1002.8	1451.7	1309.1	868.5	860.1
20345.0	70°	13774.5	4216.7	713.3	688.1	960.8	952.4	1544.0	1380.4	998.6	1007.0
14945.1	72.5°	10485.1	3197.1	709.1	688.1	834.9	910.5	1556.6	1426.5	1086.7	1007.0
8370.4	75°	5957.9	1913.2	625.2	600.0	658.7	793.0	1455.9	1359.4	1057.3	902.1
3344.0	77.5°	2462.9	986.0	574.8	541.2	545.4	646.1	1212.6	1267.1	1007.0	767.8
1116.1	80°	918.9	591.6	461.5	432.2	419.6	474.1	864.3	1011.2	860.1	629.4
490.9	82.5°	478.3	369.2	314.7	314.7	285.3	302.1	465.7	671.3	650.3	432.2
197.2	85°	243.4	209.8	180.4	176.2	159.4	142.7	235.0	398.6	373.4	239.2
88.1	87.5°	130.1	117.5	75.5	71.3	58.7	37.8	42.0	79.7	130.1	104.9
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>
5567.7
6150.9
6356.5
5945.3
5223.6
4514.6
3696.4
3117.4
2760.8
2567.8
2395.7
2181.8
1909.0
1502.1
1074.1
713.3
432.2
348.2
461.5
583.2
641.9
495.1
654.5
621.0
566.4
696.5
679.7
818.2
843.3
931.4
893.7
805.6
725.9
574.8
339.9
197.2
75.5
0.0

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