

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: P477757

Luminaire Tested: **IFLD-L-SA8A-735-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477757
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-735-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

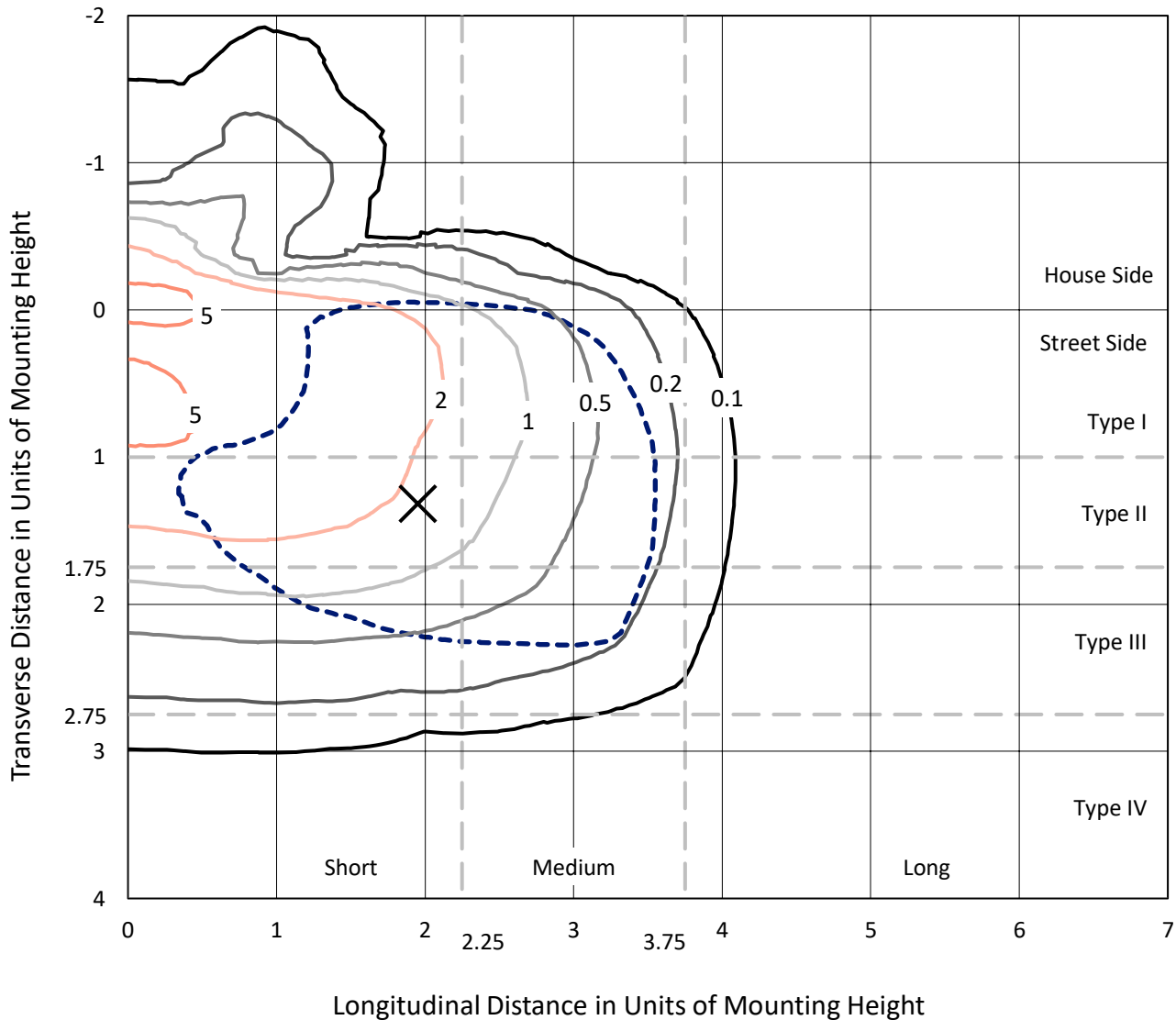
Lumens per Lamp: N/A
Luminaire Lumens: 33188.8 lumens
Efficiency: N/A
Efficacy: 133.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 247.8
Input Voltage (V): 120
Input Current (Ain): 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: P477757
 CATALOG NUMBER: IFLD-L-SA8A-735-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

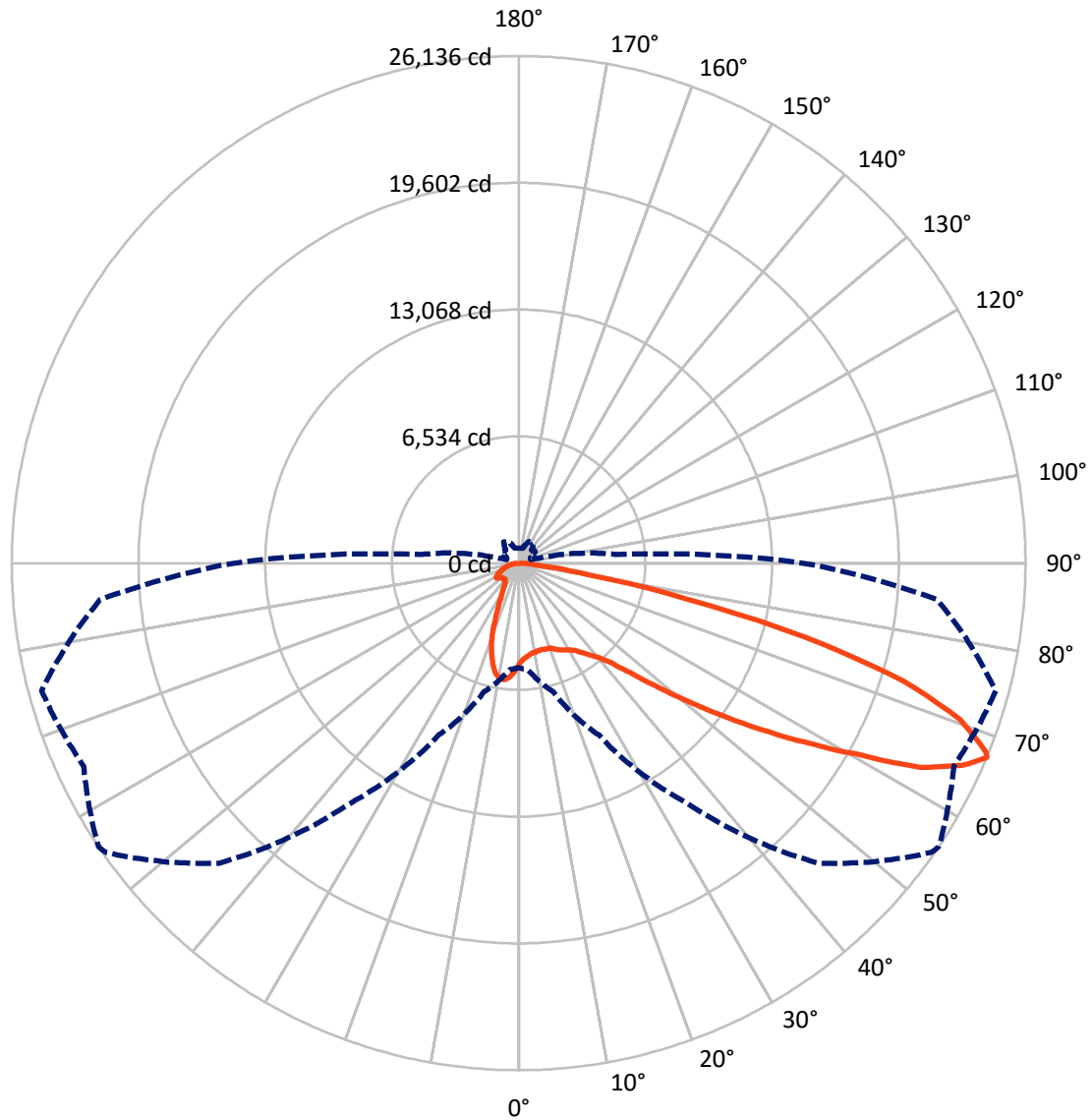
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.4 fc
 Type III - Short - N/A

REPORT NUMBER: P477757
CATALOG NUMBER: IFLD-L-SA8A-735-U-T3R

Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

REPORT NUMBER: P477757
 CATALOG NUMBER: IFLD-L-SA8A-735-U-T3R

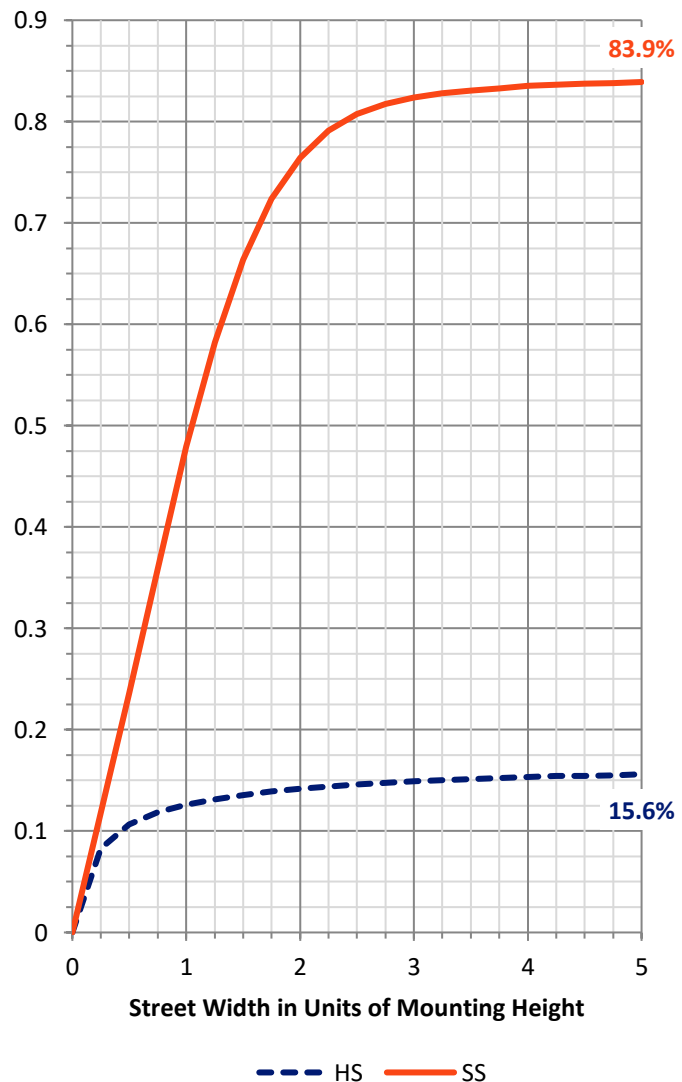
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5254.1	0.0	5254.1
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	27934.7	0.0	27934.7
	% Fixture	84.2	0.0	84.2
Total	Lumens	33188.8	0.0	33188.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	497.5	1.5
10°-20°	1357.2	4.1
20°-30°	2128.5	6.4
30°-40°	3038.5	9.2
40°-50°	4586.0	13.8
50°-60°	7300.1	22.0
60°-70°	9332.6	28.1
70°-80°	4550.3	13.7
80°-90°	398.0	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°	33188.8	100.0
0°-180°	33188.8	100.0

Coefficient of Utilization



REPORT NUMBER: P477757

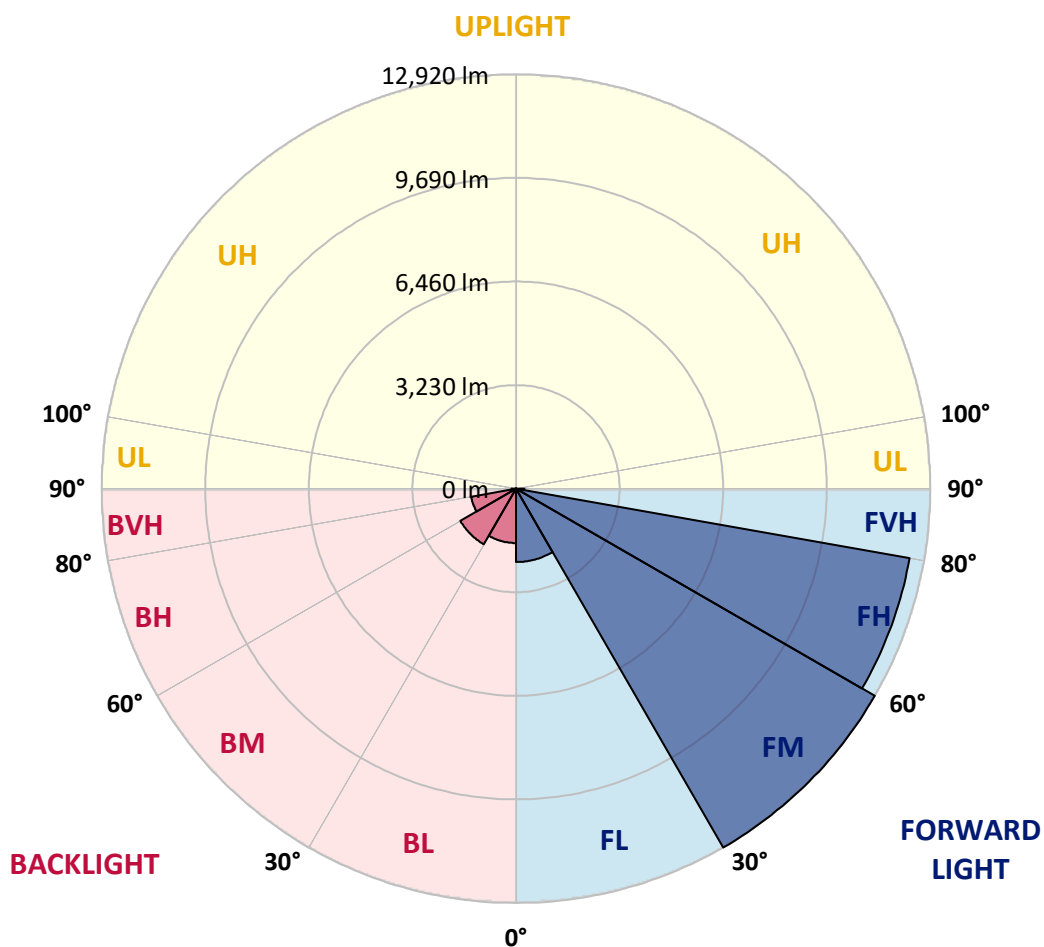
CATALOG NUMBER: IFLD-L-SA8A-735-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2287.1	6.9			
FM (30°-60°)	12920.1	38.9			
FH (60°-80°)	12463.1	37.6			G5
FVH (80°-90°)	264.4	0.8			G3/500
BL (0°-30°)	1696.2	5.1	B3/2500		
BM (30°-60°)	2004.5	6.0	B2/2500		
BH (60°-80°)	1419.8	4.3	B3/2500		G3/2500
BVH (80°-90°)	133.7	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





REPORT NUMBER: P477757
 CATALOG NUMBER: IFLD-L-SA8A-735-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	5164.1	5164.1	5164.1	5164.1	5164.1	5164.1	5164.1	5164.1	5164.1	5164.1
2.5°	4743.8	4724.3	4747.7	4724.3	4829.4	4891.7	4911.1	4938.4	5035.7	5129.1
5°	4545.3	4459.7	4553.1	4584.2	4592.0	4697.1	4806.1	4825.5	4876.1	5027.9
7.5°	4214.5	4311.8	4276.8	4370.2	4467.5	4572.6	4751.6	4701.0	4887.8	5031.8
10°	4144.5	4152.3	4191.2	4226.2	4311.8	4448.0	4697.1	4666.0	4856.7	5164.1
12.5°	4214.5	4214.5	4202.9	4175.6	4272.9	4405.2	4603.7	4619.3	4918.9	5203.0
15°	4459.7	4506.4	4381.9	4401.3	4362.4	4405.2	4580.4	4615.4	4942.3	5234.1
17.5°	5059.0	5043.5	4895.6	4689.3	4518.1	4490.8	4611.5	4650.4	4918.9	5323.6
20°	5642.7	5611.6	5354.8	5140.7	4802.2	4642.6	4662.1	4666.0	4957.8	5382.0
22.5°	6292.6	6374.4	6094.2	5658.3	5238.0	4841.1	4763.3	4825.5	5047.3	5413.1
25°	7312.2	7137.1	6895.8	6323.8	5646.6	5148.5	4930.6	4961.7	5133.0	5491.0
27.5°	8047.7	7977.7	7600.2	7137.1	6218.7	5389.8	5020.1	5078.5	5288.6	5487.1
30°	8756.0	8756.0	8526.4	7833.7	6821.9	5794.5	5210.8	5183.5	5214.7	5479.3
32.5°	9584.9	9472.0	9141.3	8682.1	7580.7	6164.2	5362.6	5370.3	5370.3	5623.3
35°	10020.7	10203.6	9981.8	9234.7	8160.6	6779.1	5728.4	5670.0	5627.2	5782.8
37.5°	10659.0	10767.9	10534.4	10094.7	8880.5	7277.2	6051.4	6004.7	5755.6	5907.4
40°	11044.2	11024.8	11017.0	10814.6	9833.9	7864.8	6526.1	6405.5	6070.8	6347.1
42.5°	11262.1	11223.2	11701.9	11577.4	10732.9	8728.7	7121.5	7055.4	6685.7	7129.3
45°	11507.3	11795.3	12188.3	12538.6	11779.7	9942.9	8129.5	8036.1	7705.3	8269.5
47.5°	11721.4	12075.5	12577.5	12951.1	12725.4	11262.1	9374.7	9398.1	9180.2	9760.0
50°	12079.4	12114.4	12795.4	13550.4	13725.5	12480.2	11048.1	11009.2	10911.9	11725.2
52.5°	11970.4	12075.5	12935.5	13900.6	14188.6	13768.3	12846.0	12962.8	12834.3	13857.8
55°	10195.9	10511.1	12849.9	14270.3	15286.0	15223.7	15157.6	15079.8	15072.0	16255.0
57.5°	9390.3	9647.2	11320.5	14678.9	16461.3	16920.5	17348.5	17434.1	17430.3	18858.5
60°	8861.1	9125.7	10701.8	14457.1	17461.4	19142.5	19963.7	19975.3	19952.0	21640.9
62.5°	7825.9	8082.8	9631.6	13242.9	17737.7	21193.4	23022.4	23174.2	22104.0	24038.1
65°	6580.6	6790.8	8156.7	11386.7	17002.2	22497.1	25322.3	25143.3	23917.5	25407.9
67°	5382.0	5522.1	6853.0	9775.6	15079.8	21870.5	25987.8	26135.7	24754.2	25466.3
67.5°	5039.6	5168.0	6425.0	9226.9	14348.1	21395.7	26011.1	25987.8	24769.7	25478.0
70°	3498.5	3553.0	4378.0	6347.1	10569.5	18076.3	24112.1	24166.5	23730.7	24096.5
72.5°	2319.4	2401.1	2926.4	4000.5	6230.4	13153.4	20154.3	20738.1	20461.8	19757.4
75°	1494.4	1541.1	1914.6	2381.6	3066.5	7491.2	14889.1	15278.2	14643.9	12219.5
77.5°	836.7	887.3	1155.8	1447.7	1494.4	3117.1	8362.9	8845.5	7495.1	5191.3
80°	521.5	587.6	871.7	860.0	712.2	1144.1	3447.9	3693.1	2996.5	1786.2
82.5°	393.0	443.6	673.2	603.2	400.8	509.8	1292.0	1385.4	1097.4	688.8
85°	268.5	338.6	486.4	373.6	210.1	245.2	513.7	552.6	502.0	334.7
87.5°	97.3	144.0	253.0	186.8	93.4	73.9	167.3	186.8	179.0	151.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P477757
 CATALOG NUMBER: IFLD-L-SA8A-735-U-T3R

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5164.1	0°	5164.1	5164.1	5164.1	5164.1	5164.1	5164.1	5164.1	5164.1	5164.1	5164.1
5210.8	2.5°	5284.7	5339.2	5366.4	5526.0	5592.2	5580.5	5596.1	5619.4	5642.7	5673.9
5276.9	5°	5327.5	5494.9	5584.4	5771.2	5895.7	5841.2	5911.3	5891.8	5864.6	5860.7
5397.6	7.5°	5467.6	5681.7	5950.2	6000.8	6055.3	5919.0	5802.3	5642.7	5603.8	5467.6
5498.8	10°	5716.7	5891.8	6218.7	6238.2	5996.9	5646.6	5385.9	5055.1	5051.2	4852.8
5654.4	12.5°	5954.1	6152.5	6417.2	6304.3	5728.4	5249.7	4825.5	4463.6	4311.8	4210.7
5747.8	15°	6102.0	6428.8	6568.9	6082.5	5257.5	4611.5	4062.8	3673.6	3518.0	3444.0
5864.6	17.5°	6238.2	6693.5	6631.2	5693.3	4677.6	3953.8	3300.0	2961.5	2918.7	2864.2
6051.4	20°	6425.0	6790.8	6409.4	5187.4	4020.0	3105.5	2689.1	2525.6	2564.5	2587.9
6070.8	22.5°	6600.1	6841.3	6129.2	4634.8	3175.5	2459.5	2253.2	2288.2	2346.6	2424.4
6117.5	25°	6677.9	6923.1	5751.7	3872.1	2416.7	2070.3	2023.6	2082.0	2179.3	2183.2
6183.7	27.5°	6728.5	6864.7	5296.4	3128.8	1910.8	1809.6	1879.6	1922.4	1934.1	1980.8
6323.8	30°	6818.0	6744.1	4720.5	2237.6	1603.3	1607.2	1696.7	1696.7	1696.7	1731.7
6463.9	32.5°	6973.7	6662.3	4047.2	1634.5	1381.5	1506.0	1482.7	1474.9	1459.3	1416.5
6642.9	35°	7070.9	6440.5	3195.0	1210.3	1241.4	1381.5	1373.7	1253.1	1050.7	949.5
7098.2	37.5°	7273.3	6327.7	2350.5	934.0	1159.7	1319.2	1276.4	984.6	762.7	665.5
7662.5	40°	7709.2	6253.7	1626.7	817.2	1105.2	1288.1	1140.2	840.6	583.7	412.5
8534.2	42.5°	8242.3	6257.6	1105.2	770.5	1109.1	1354.3	1097.4	719.9	412.5	330.8
9697.7	45°	8958.4	6199.2	758.9	770.5	1179.1	1463.2	1124.7	653.8	400.8	420.3
11157.1	47.5°	9728.9	6249.8	564.3	700.5	1190.8	1467.1	1027.4	642.1	385.3	486.4
12744.8	50°	10627.8	6300.4	467.0	646.0	1194.7	1420.4	945.6	626.5	400.8	513.7
14566.1	52.5°	11554.0	6460.0	396.9	611.0	1241.4	1401.0	945.6	649.9	400.8	447.5
16885.4	55°	12935.5	6868.6	572.1	762.7	1412.6	1529.4	1163.6	910.6	560.4	575.9
19107.5	57.5°	14461.0	7288.9	638.2	801.7	1451.5	1377.6	1253.1	1004.0	591.5	595.4
20835.4	60°	15465.0	7304.4	634.3	782.2	1358.2	1190.8	1225.8	1058.5	603.2	509.8
21905.5	62.5°	15865.9	6829.7	661.6	782.2	1264.8	1113.0	1257.0	1140.2	622.6	638.2
22209.1	65°	15410.5	5849.0	638.2	700.5	1113.0	996.2	1264.8	1155.8	681.0	642.1
21664.3	67°	14698.4	5039.6	649.9	665.5	1035.2	945.6	1330.9	1214.2	790.0	770.5
21380.2	67.5°	14496.0	4825.5	646.0	646.0	1007.9	930.1	1346.5	1214.2	805.6	797.8
18870.1	70°	12776.0	3911.0	661.6	638.2	891.2	883.4	1432.1	1280.3	926.2	934.0
13861.7	72.5°	9725.0	2965.4	657.7	638.2	774.4	844.5	1443.8	1323.1	1007.9	934.0
7763.6	75°	5526.0	1774.5	579.8	556.5	611.0	735.5	1350.4	1260.9	980.7	836.7
3101.6	77.5°	2284.3	914.5	533.1	502.0	505.9	599.3	1124.7	1175.2	934.0	712.2
1035.2	80°	852.2	548.7	428.1	400.8	389.2	439.7	801.7	937.9	797.8	583.7
455.3	82.5°	443.6	342.5	291.9	291.9	264.6	280.2	432.0	622.6	603.2	400.8
182.9	85°	225.7	194.6	167.3	163.4	147.9	132.3	217.9	369.7	346.3	221.8
81.7	87.5°	120.6	109.0	70.0	66.2	54.5	35.0	38.9	73.9	120.6	97.3
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>
5164.1
5705.0
5895.7
5514.3
4845.0
4187.3
3428.5
2891.4
2560.6
2381.6
2222.1
2023.6
1770.7
1393.2
996.2
661.6
400.8
323.0
428.1
540.9
595.4
459.2
607.1
575.9
525.4
646.0
630.4
758.9
782.2
863.9
828.9
747.2
673.2
533.1
315.2
182.9
70.0
0.0

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