

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: P477912

Luminaire Tested: **IFLD-L-SA7E-827-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477912
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7E-827-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

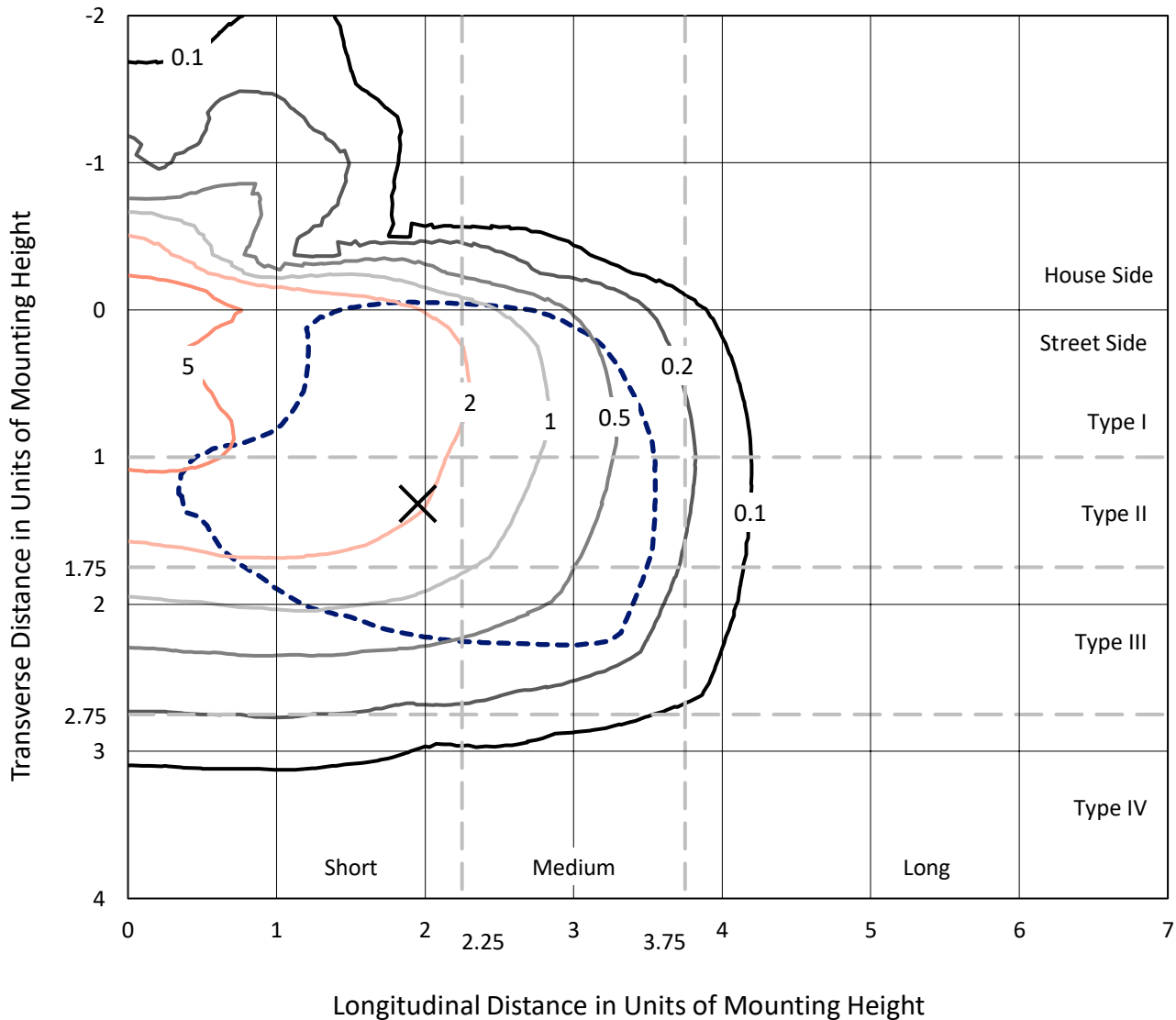
Lumens per Lamp: N/A
Luminaire Lumens: 40762.8 lumens
Efficiency: N/A
Efficacy: 76.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 532.7
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

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Iso-Footcandle Lines of Horizontal Illumination

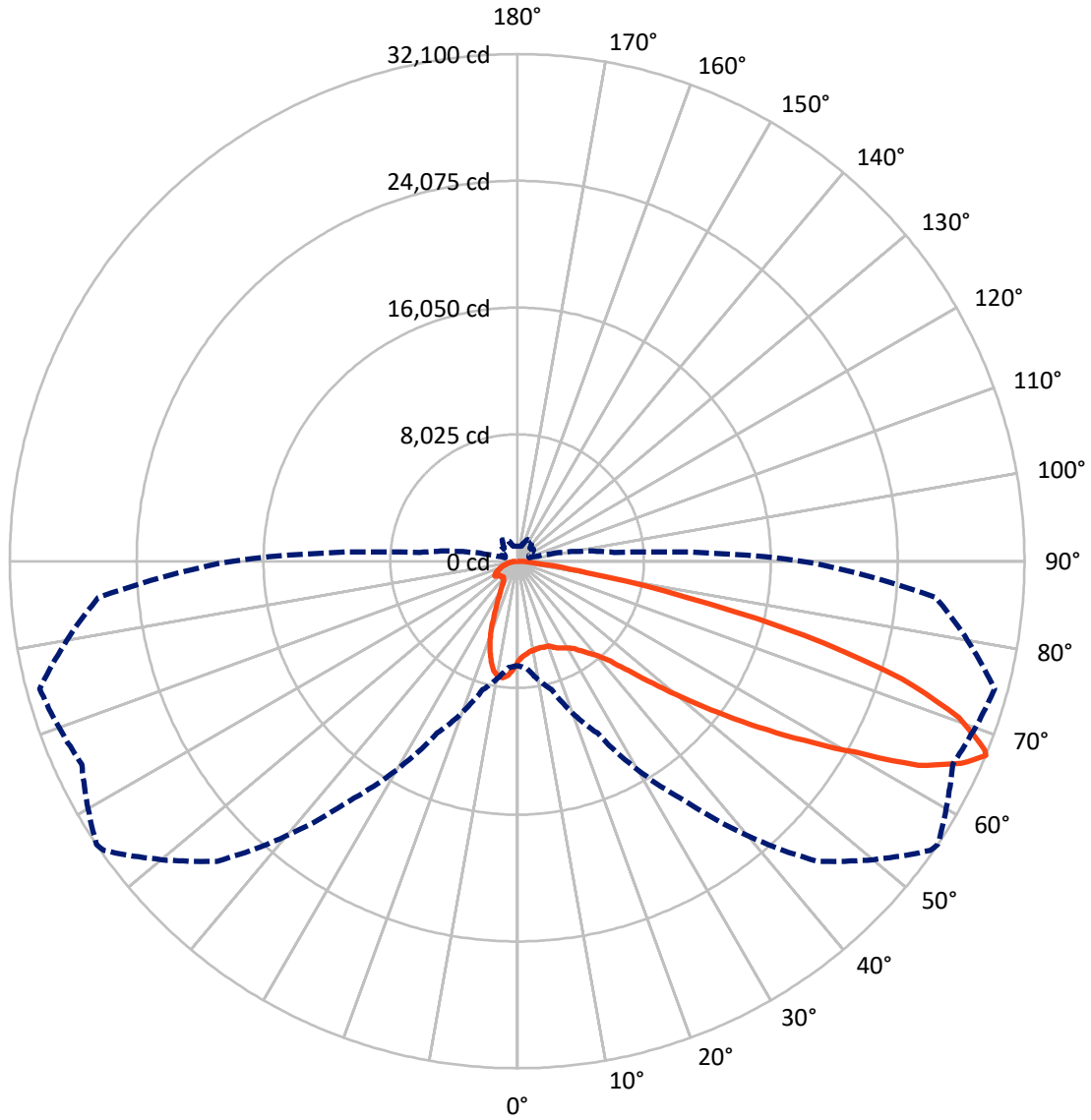
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.8 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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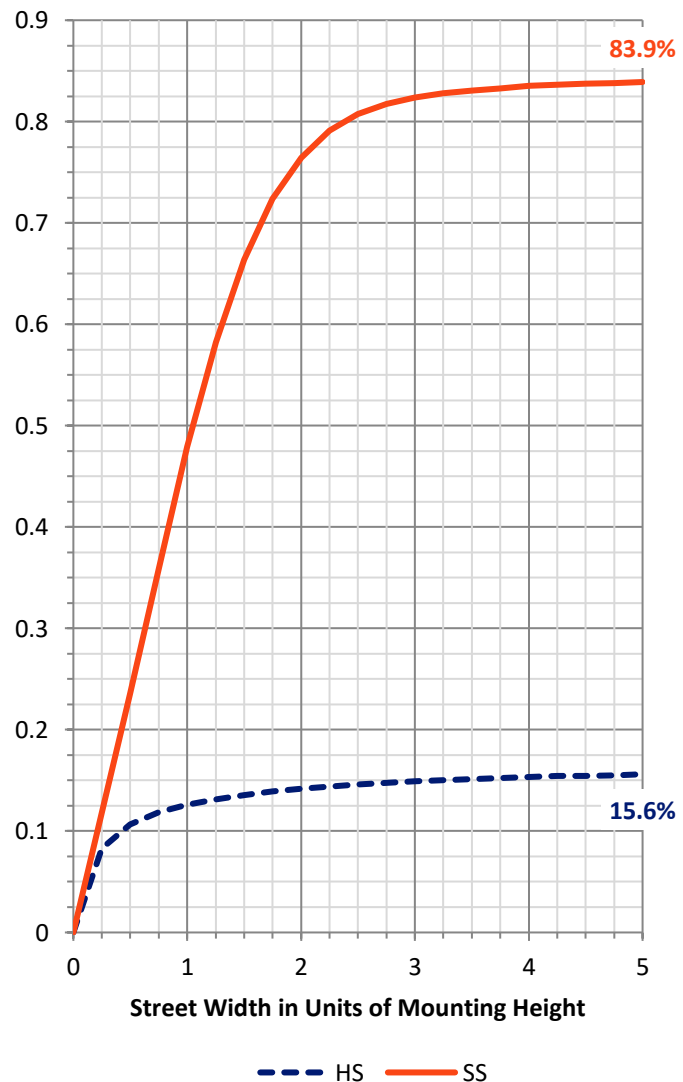
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6453.2	0.0	6453.2
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	34309.7	0.0	34309.7
	% Fixture	84.2	0.0	84.2
Total	Lumens	40762.8	0.0	40762.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	611.0	1.5
10°-20°	1667.0	4.1
20°-30°	2614.3	6.4
30°-40°	3731.9	9.2
40°-50°	5632.6	13.8
50°-60°	8966.1	22.0
60°-70°	11462.4	28.1
70°-80°	5588.7	13.7
80°-90°	488.9	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°	40762.8	100.0
0°-180°	40762.8	100.0

Coefficient of Utilization

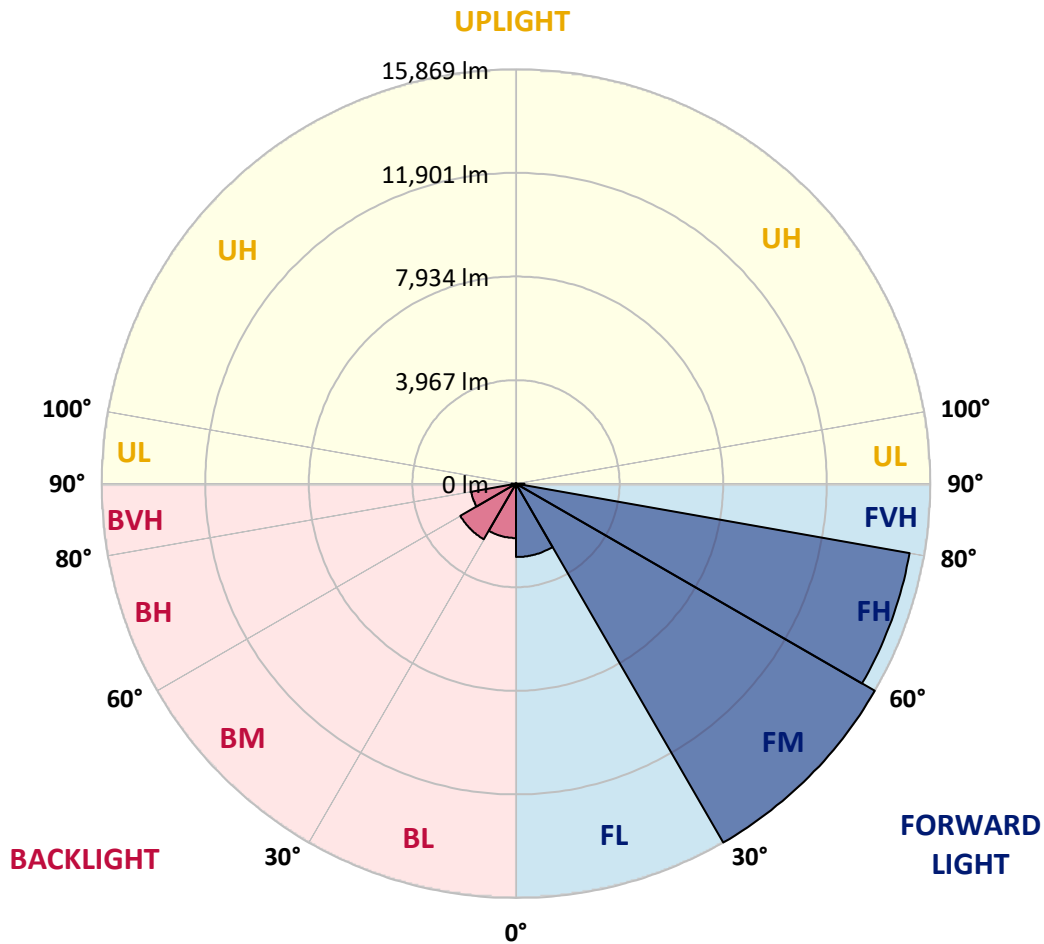


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2809.0	6.9			
FM (30°-60°)	15868.6	38.9			
FH (60°-80°)	15307.3	37.6			G5
FVH (80°-90°)	324.7	0.8			G3/500
BL (0°-30°)	2083.3	5.1	B3/2500		
BM (30°-60°)	2461.9	6.0	B2/2500		
BH (60°-80°)	1743.8	4.3	B3/2500		G3/2500
BVH (80°-90°)	164.2	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°	6342.6	6342.6	6342.6	6342.6	6342.6	6342.6	6342.6	6342.6	6342.6	6342.6
2.5°	5826.4	5802.5	5831.2	5802.5	5931.5	6008.0	6031.9	6065.4	6184.9	6299.6
5°	5582.6	5477.5	5592.2	5630.4	5640.0	5769.0	5902.9	5926.8	5988.9	6175.3
7.5°	5176.4	5295.8	5252.8	5367.5	5487.0	5616.1	5835.9	5773.8	6003.2	6180.1
10°	5090.3	5099.9	5147.7	5190.7	5295.8	5463.1	5769.0	5730.8	5965.0	6342.6
12.5°	5176.4	5176.4	5162.0	5128.6	5248.0	5410.6	5654.3	5673.4	6041.5	6390.4
15°	5477.5	5534.8	5381.9	5405.8	5358.0	5410.6	5625.6	5668.7	6070.1	6428.6
17.5°	6213.5	6194.4	6012.8	5759.5	5549.2	5515.7	5663.9	5711.7	6041.5	6538.6
20°	6930.5	6892.2	6576.8	6313.9	5898.1	5702.1	5726.0	5730.8	6089.3	6610.2
22.5°	7728.7	7829.1	7484.9	6949.6	6433.4	5945.9	5850.3	5926.8	6199.2	6648.5
25°	8980.9	8765.9	8469.5	7766.9	6935.3	6323.5	6055.8	6094.0	6304.3	6744.1
27.5°	9884.3	9798.3	9334.6	8765.9	7637.9	6619.8	6165.7	6237.4	6495.5	6739.3
30°	10754.2	10754.2	10472.2	9621.4	8378.7	7116.9	6399.9	6366.5	6404.7	6729.7
32.5°	11772.3	11633.7	11227.4	10663.4	9310.7	7571.0	6586.3	6595.9	6595.9	6906.6
35°	12307.6	12532.2	12259.8	11342.1	10022.9	8326.1	7035.6	6963.9	6911.4	7102.5
37.5°	13091.4	13225.3	12938.5	12398.4	10907.1	8937.9	7432.3	7375.0	7069.1	7255.5
40°	13564.6	13540.7	13531.2	13282.6	12078.2	9659.7	8015.5	7867.3	7456.2	7795.6
42.5°	13832.3	13784.5	14372.4	14219.4	13182.3	10720.7	8746.7	8665.5	8211.4	8756.3
45°	14133.4	14487.1	14969.8	15400.0	14468.0	12212.0	9984.7	9870.0	9463.7	10156.7
47.5°	14396.3	14831.2	15447.8	15906.7	15629.4	13832.3	11514.2	11542.8	11275.2	11987.3
50°	14836.0	14879.0	15715.5	16642.7	16857.8	15328.3	13569.4	13521.6	13402.1	14401.1
52.5°	14702.2	14831.2	15887.5	17072.9	17426.6	16910.4	15777.6	15921.0	15763.3	17020.3
55°	12522.7	12909.8	15782.4	17527.0	18774.4	18698.0	18616.7	18521.1	18511.6	19964.6
57.5°	11533.3	11848.7	13904.0	18028.8	20217.9	20781.9	21307.6	21412.8	21408.0	23162.2
60°	10883.2	11208.3	13144.0	17756.4	21446.3	23511.1	24519.6	24533.9	24505.2	26579.6
62.5°	9611.9	9927.3	11829.6	16265.1	21785.6	26029.9	28276.4	28462.8	27148.4	29523.9
65°	8082.4	8340.5	10018.1	13985.2	20882.3	27631.1	31101.1	30881.3	29375.7	31206.3
67°	6610.2	6782.3	8417.0	12006.5	18521.1	26861.6	31918.5	32100.1	30403.3	31278.0
67.5°	6189.6	6347.4	7891.2	11332.5	17622.5	26278.5	31947.1	31918.5	30422.4	31292.3
70°	4296.9	4363.8	5377.1	7795.6	12981.5	22201.4	29614.7	29681.6	29146.3	29595.6
72.5°	2848.7	2949.0	3594.3	4913.5	7652.2	16155.2	24753.8	25470.7	25131.4	24266.2
75°	1835.4	1892.7	2351.6	2925.1	3766.4	9200.8	18286.9	18764.9	17985.8	15008.1
77.5°	1027.6	1089.8	1419.6	1778.0	1835.4	3828.5	10271.5	10864.1	9205.6	6376.0
80°	640.5	721.7	1070.6	1056.3	874.7	1405.2	4234.8	4535.9	3680.3	2193.9
82.5°	482.7	544.9	826.9	740.8	492.3	626.1	1586.8	1701.6	1347.9	846.0
85°	329.8	415.8	597.5	458.8	258.1	301.1	630.9	678.7	616.6	411.0
87.5°	119.5	176.8	310.7	229.4	114.7	90.8	205.5	229.4	219.9	186.4
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°
6342.6	0°	6342.6	6342.6	6342.6	6342.6	6342.6	6342.6	6342.6	6342.6	6342.6	6342.6
6399.9	2.5°	6490.8	6557.7	6591.1	6787.1	6868.3	6854.0	6873.1	6901.8	6930.5	6968.7
6481.2	5°	6543.3	6748.9	6858.8	7088.2	7241.2	7174.2	7260.3	7236.4	7202.9	7198.1
6629.4	7.5°	6715.4	6978.3	7308.1	7370.2	7437.1	7269.8	7126.4	6930.5	6882.7	6715.4
6753.6	10°	7021.3	7236.4	7637.9	7661.8	7365.4	6935.3	6615.0	6208.8	6204.0	5960.2
6944.8	12.5°	7312.9	7556.6	7881.6	7743.0	7035.6	6447.7	5926.8	5482.3	5295.8	5171.6
7059.5	15°	7494.5	7896.0	8068.0	7470.6	6457.3	5663.9	4989.9	4512.0	4320.8	4230.0
7202.9	17.5°	7661.8	8221.0	8144.5	6992.6	5745.1	4856.1	4053.1	3637.3	3584.7	3517.8
7432.3	20°	7891.2	8340.5	7872.1	6371.3	4937.4	3814.2	3302.7	3102.0	3149.8	3178.5
7456.2	22.5°	8106.3	8402.6	7527.9	5692.6	3900.2	3020.7	2767.4	2810.4	2882.1	2977.7
7513.6	25°	8201.9	8503.0	7064.3	4755.7	2968.2	2542.8	2485.4	2557.1	2676.6	2681.4
7594.9	27.5°	8264.0	8431.3	6505.1	3842.8	2346.8	2222.5	2308.6	2361.1	2375.5	2432.8
7766.9	30°	8373.9	8283.1	5797.7	2748.3	1969.2	1974.0	2083.9	2083.9	2083.9	2126.9
7939.0	32.5°	8565.1	8182.7	4970.8	2007.5	1696.8	1849.7	1821.0	1811.5	1792.4	1739.8
8158.9	35°	8684.6	7910.3	3924.1	1486.5	1524.7	1696.8	1687.2	1539.0	1290.5	1166.2
8718.1	37.5°	8933.2	7771.7	2886.9	1147.1	1424.3	1620.3	1567.7	1209.2	936.8	817.3
9411.1	40°	9468.5	7680.9	1997.9	1003.7	1357.4	1582.1	1400.4	1032.4	716.9	506.6
10481.8	42.5°	10123.3	7685.7	1357.4	946.4	1362.2	1663.3	1347.9	884.2	506.6	406.3
11910.9	45°	11002.7	7614.0	932.0	946.4	1448.2	1797.1	1381.3	803.0	492.3	516.2
13703.2	47.5°	11949.1	7676.1	693.0	860.3	1462.6	1801.9	1261.8	788.6	473.2	597.5
15653.3	50°	13053.2	7738.2	573.6	793.4	1467.4	1744.6	1161.5	769.5	492.3	630.9
17890.2	52.5°	14190.8	7934.2	487.5	750.4	1524.7	1720.7	1161.5	798.2	492.3	549.7
20738.9	55°	15887.5	8436.1	702.6	936.8	1735.0	1878.4	1429.1	1118.4	688.3	707.4
23468.0	57.5°	17761.2	8952.3	783.9	984.6	1782.8	1692.0	1539.0	1233.1	726.5	731.3
25590.2	60°	18994.3	8971.4	779.1	960.7	1668.1	1462.6	1505.6	1300.1	740.8	626.1
26904.6	62.5°	19486.6	8388.3	812.5	960.7	1553.4	1367.0	1543.8	1400.4	764.7	783.9
27277.4	65°	18927.4	7183.8	783.9	860.3	1367.0	1223.6	1553.4	1419.6	836.4	788.6
26608.3	67°	18052.7	6189.6	798.2	817.3	1271.4	1161.5	1634.6	1491.2	970.3	946.4
26259.4	67.5°	17804.2	5926.8	793.4	793.4	1237.9	1142.3	1653.8	1491.2	989.4	979.8
23176.5	70°	15691.6	4803.5	812.5	783.9	1094.5	1085.0	1758.9	1572.5	1137.6	1147.1
17025.1	72.5°	11944.3	3642.1	807.8	783.9	951.1	1037.2	1773.2	1625.1	1237.9	1147.1
9535.4	75°	6787.1	2179.5	712.2	683.5	750.4	903.4	1658.5	1548.6	1204.5	1027.6
3809.4	77.5°	2805.7	1123.2	654.8	616.6	621.4	736.1	1381.3	1443.5	1147.1	874.7
1271.4	80°	1046.7	673.9	525.8	492.3	478.0	540.1	984.6	1151.9	979.8	716.9
559.2	82.5°	544.9	420.6	358.5	358.5	325.0	344.1	530.5	764.7	740.8	492.3
224.6	85°	277.2	239.0	205.5	200.7	181.6	162.5	267.7	454.1	425.4	272.4
100.4	87.5°	148.2	133.8	86.0	81.3	66.9	43.0	47.8	90.8	148.2	119.5
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>
6342.6
7007.0
7241.2
6772.8
5950.7
5142.9
4210.9
3551.3
3145.0
2925.1
2729.2
2485.4
2174.7
1711.1
1223.6
812.5
492.3
396.7
525.8
664.4
731.3
564.0
745.6
707.4
645.3
793.4
774.3
932.0
960.7
1061.1
1018.1
917.7
826.9
654.8
387.2
224.6
86.0
0.0

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