

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: P477276

Luminaire Tested: **IFLD-S-SA6C-727-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477276
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-727-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (96) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

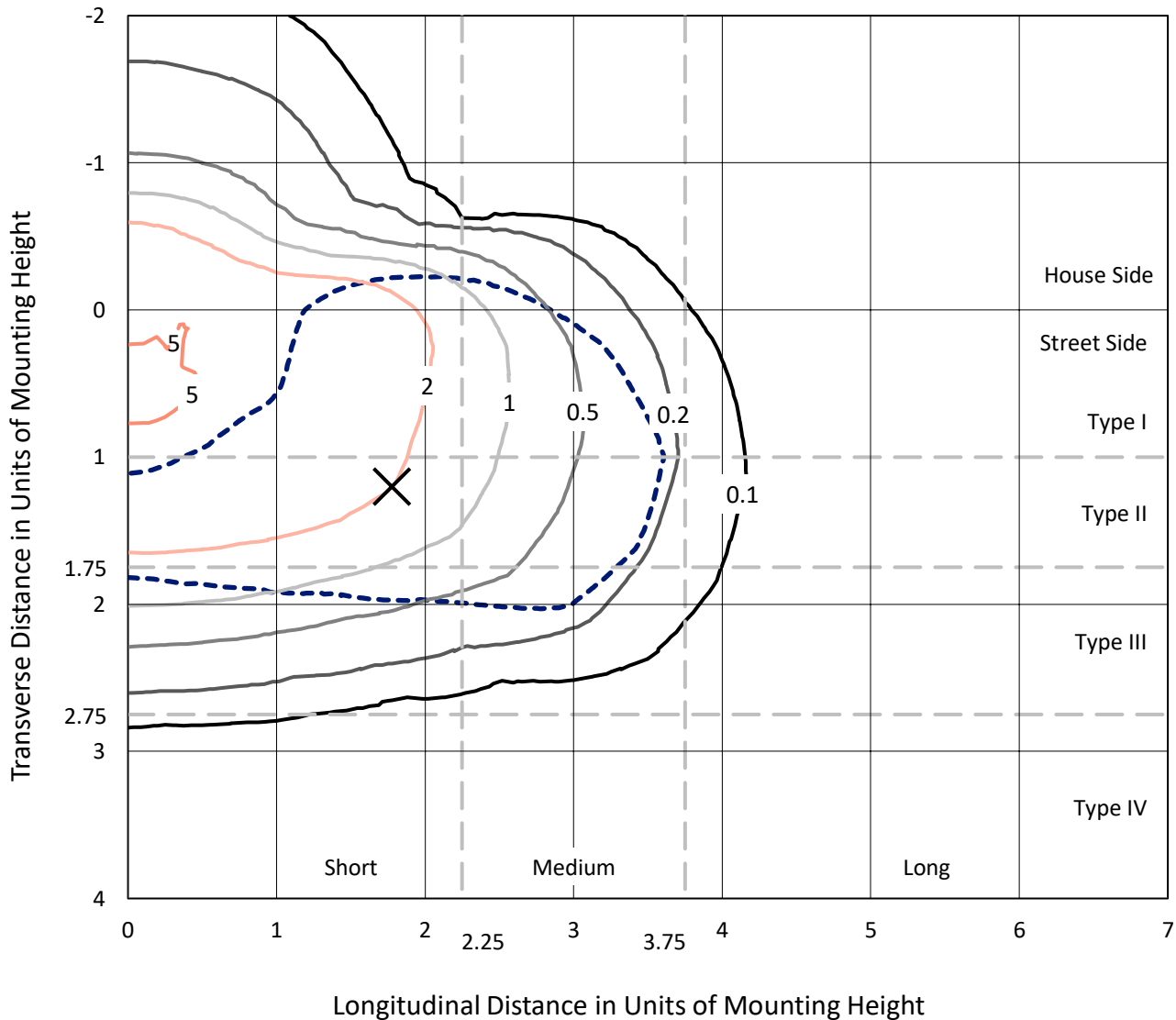
Lumens per Lamp: N/A
Luminaire Lumens: 35393.4 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 321.5
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

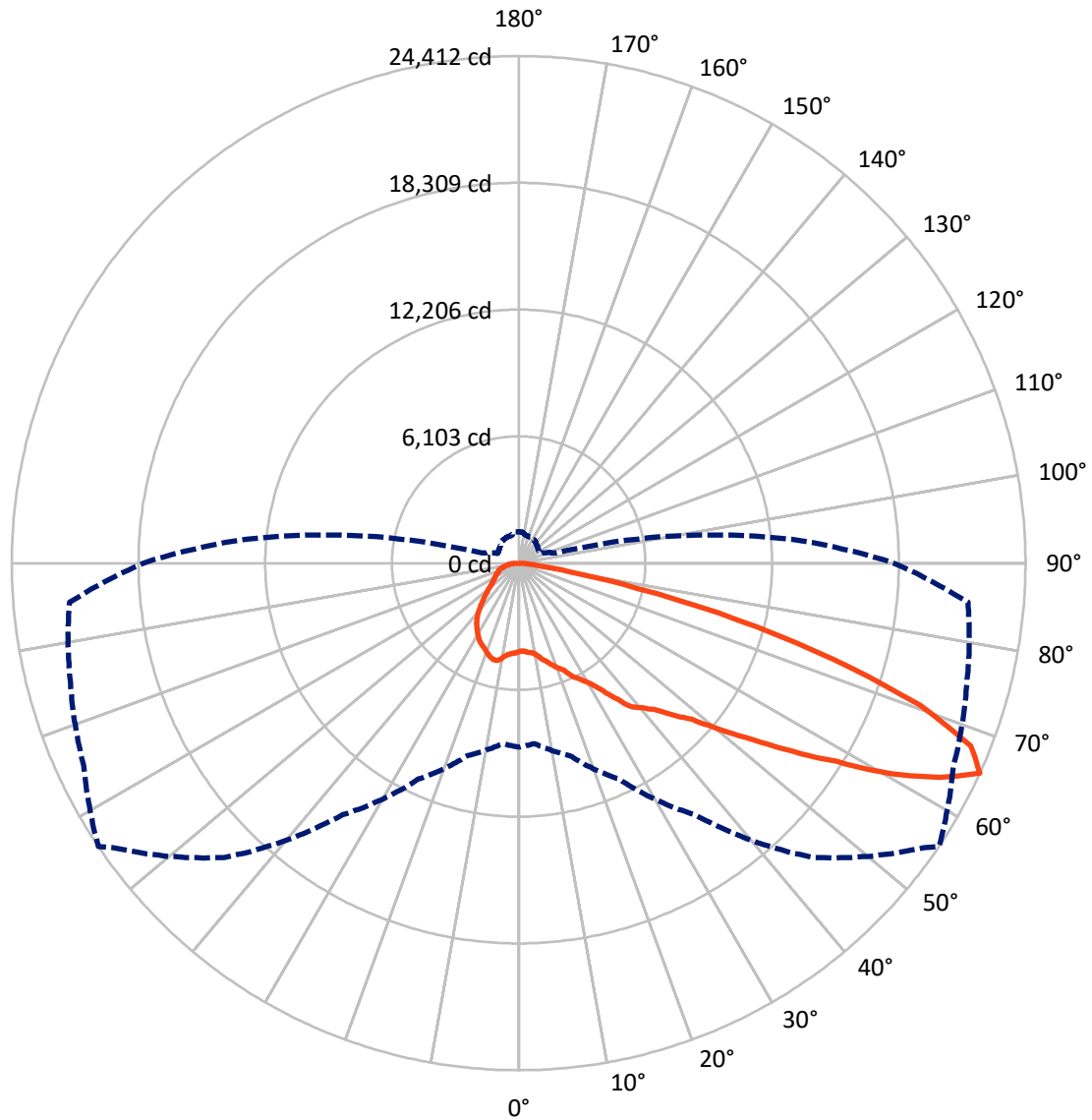
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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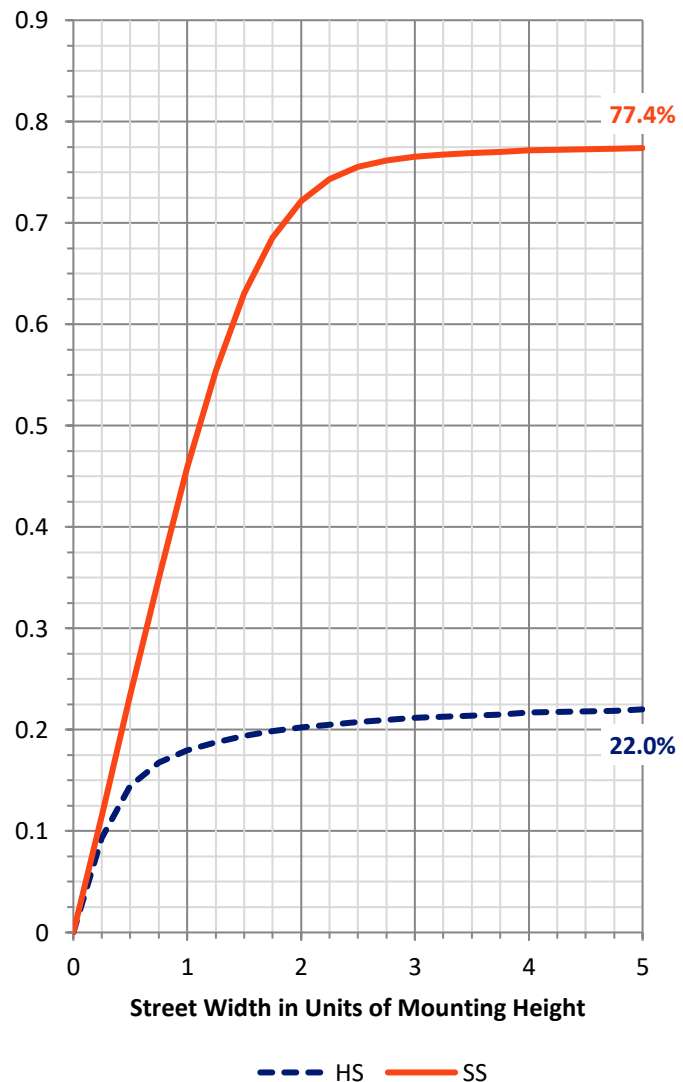
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7937.6	0.0	7937.6
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	27455.8	0.0	27455.8
	% Fixture	77.6	0.0	77.6
Total	Lumens	35393.4	0.0	35393.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	421.0	1.2
10°-20°	1367.0	3.9
20°-30°	2434.0	6.9
30°-40°	3644.9	10.3
40°-50°	5400.3	15.3
50°-60°	8321.1	23.5
60°-70°	9420.5	26.6
70°-80°	3909.6	11.0
80°-90°	475.0	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°	35393.4	100.0
0°-180°	35393.4	100.0

Coefficient of Utilization



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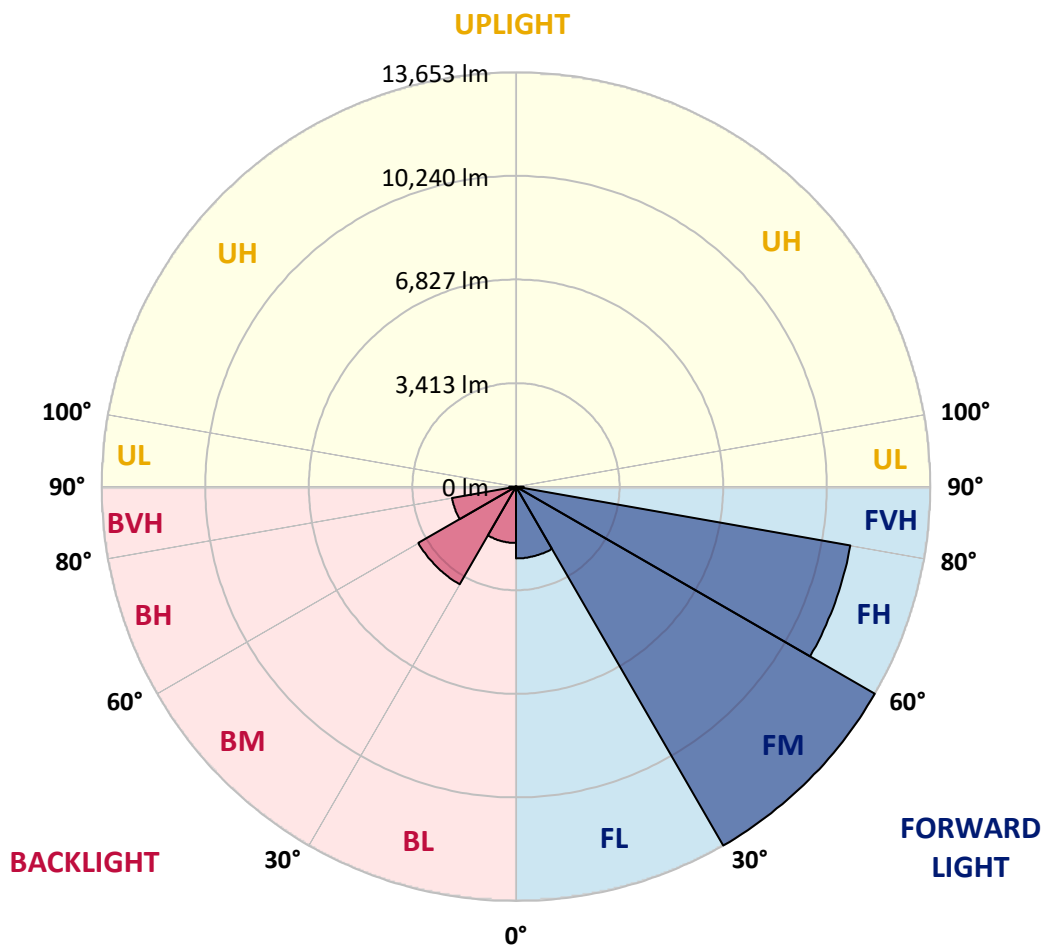
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2365.3	6.7			
FM (30°-60°)	13653.2	38.6			
FH (60°-80°)	11186.7	31.6			G4/12000
FVH (80°-90°)	250.5	0.7			G3/500
BL (0°-30°)	1856.7	5.2	B3/2500		
BM (30°-60°)	3713.1	10.5	B3/5000		
BH (60°-80°)	2143.4	6.1	B3/2500		G3/2500
BVH (80°-90°)	224.4	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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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	4248.2	4248.2	4248.2	4248.2	4248.2	4248.2	4248.2	4248.2	4248.2	4248.2
2.5°	4137.1	4159.3	4144.5	4189.0	4226.0	4226.0	4255.6	4233.4	4263.0	4303.8
5°	4274.1	4185.2	4233.4	4255.6	4244.5	4263.0	4233.4	4307.5	4259.3	4337.1
7.5°	4307.5	4340.8	4381.5	4344.5	4377.8	4359.3	4363.0	4351.9	4326.0	4389.0
10°	4551.9	4503.8	4596.4	4540.8	4533.4	4526.0	4511.2	4455.6	4518.6	4522.3
12.5°	4833.4	4789.0	4785.3	4740.8	4800.1	4692.7	4714.9	4685.3	4696.4	4711.2
15°	5037.1	5018.6	5103.8	5051.9	4974.2	4926.0	4977.9	4896.4	4937.1	4929.7
17.5°	5440.8	5437.1	5374.2	5289.0	5244.5	5174.2	5163.0	5129.7	5159.3	5144.5
20°	5722.3	5763.1	5774.2	5674.2	5503.8	5426.0	5407.5	5381.6	5414.9	5403.8
22.5°	6151.9	6089.0	6137.1	5963.1	5900.1	5714.9	5648.2	5611.2	5770.5	5729.7
25°	6426.0	6492.7	6444.5	6385.3	6244.5	6014.9	5966.8	6048.2	6111.2	6066.8
27.5°	7044.6	6977.9	6933.4	6755.7	6663.1	6422.3	6366.8	6337.1	6352.0	6377.9
30°	7514.9	7552.0	7452.0	7326.0	7092.7	6848.3	6718.6	6692.7	6640.8	6596.4
32.5°	8185.3	8129.8	8070.5	7989.0	7789.0	7466.8	7340.9	7244.6	7089.0	6881.6
35°	8507.5	8666.8	8622.4	8403.8	8252.0	8129.8	8092.7	7944.6	7814.9	7489.0
37.5°	9044.6	9111.3	9048.3	8977.9	8907.5	8777.9	8733.5	8774.2	8518.7	7981.6
40°	9392.7	9533.5	9663.1	9466.8	9452.0	9477.9	9203.8	9155.7	8629.8	8348.3
42.5°	10103.9	10163.1	10189.0	10181.6	10266.8	10266.8	9744.6	9640.9	9266.8	9037.2
45°	11044.6	11092.8	11185.4	11252.0	11155.7	11203.9	10459.4	10418.7	10085.3	10040.9
47.5°	11859.4	11974.3	12181.7	12378.0	12503.9	12340.9	11526.1	11237.2	11152.0	11418.7
50°	12570.6	12433.5	12918.7	13118.7	13670.6	13941.0	12703.9	12589.1	12452.0	12963.2
52.5°	12640.9	12826.1	13511.3	13911.3	15048.4	15548.4	14148.4	14100.2	13933.5	14522.4
55°	13144.6	13122.4	13811.3	14678.0	16029.9	16870.6	16029.9	16000.2	15637.3	16196.5
57.5°	13059.5	13285.4	13829.8	15041.0	16915.1	18289.2	18211.4	18007.7	17500.3	17955.8
60°	12770.6	12829.8	13492.8	15029.9	17429.9	19744.8	20567.0	20607.7	19570.7	19933.6
62.5°	11133.5	11270.5	12111.3	13848.4	17063.2	20748.5	22867.0	22722.6	21892.9	21478.1
65°	8855.7	8718.7	9592.7	11470.5	14781.7	20037.3	23874.4	24411.5	23107.8	22348.5
67.5°	5429.7	5396.4	6237.1	7892.7	11059.4	17052.1	23070.7	23489.3	22770.7	22163.3
70°	2796.3	2711.2	3237.1	4403.8	6952.0	12511.3	20078.1	20489.2	21174.4	19878.1
72.5°	1303.7	1285.2	1566.7	2166.7	3540.8	7355.7	15548.4	15844.7	17289.2	16759.5
75°	766.7	777.8	937.1	1133.4	1726.0	3466.7	10318.7	10892.8	12459.5	12078.0
77.5°	574.1	574.1	666.7	788.9	1007.4	1340.8	5092.7	5851.9	7285.3	6552.0
80°	422.2	429.6	511.1	592.6	700.0	692.6	2022.3	2370.4	3340.8	2855.6
82.5°	329.6	340.7	396.3	440.7	492.6	418.5	829.6	892.6	1374.1	1092.6
85°	229.6	237.0	311.1	300.0	300.0	233.3	344.4	363.0	544.5	518.5
87.5°	55.6	63.0	151.9	166.7	125.9	70.4	107.4	122.2	196.3	225.9
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°
4248.2	0°	4248.2	4248.2	4248.2	4248.2	4248.2	4248.2	4248.2	4248.2	4248.2	4248.2
4322.3	2.5°	4266.7	4281.5	4344.5	4311.2	4329.7	4251.9	4314.9	4263.0	4307.5	4285.3
4355.6	5°	4385.3	4351.9	4389.0	4363.0	4363.0	4392.7	4437.1	4403.8	4470.4	4440.8
4381.5	7.5°	4433.4	4437.1	4459.3	4463.0	4444.5	4537.1	4540.8	4529.7	4592.7	4577.8
4559.3	10°	4551.9	4555.6	4596.4	4618.6	4600.1	4633.4	4596.4	4566.7	4563.0	4548.2
4700.1	12.5°	4740.8	4777.9	4770.4	4789.0	4792.7	4651.9	4566.7	4422.3	4403.8	4422.3
4907.5	15°	4914.9	4900.1	4907.5	4944.5	4789.0	4563.0	4411.2	4289.0	4296.4	4300.1
5177.9	17.5°	5122.3	5133.4	5144.5	4974.2	4689.0	4422.3	4289.0	4289.0	4251.9	4266.7
5366.7	20°	5359.3	5314.9	5218.6	4977.9	4514.9	4259.3	4218.6	4218.6	4174.1	4144.5
5570.5	22.5°	5544.5	5455.6	5311.2	4863.0	4359.3	4196.4	4096.4	4026.0	3974.1	3914.9
5796.4	25°	5663.1	5614.9	5333.4	4744.5	4244.5	4029.7	3881.5	3774.1	3707.5	3629.7
5974.2	27.5°	5844.5	5751.9	5396.4	4607.5	4118.6	3863.0	3633.4	3466.7	3340.8	3259.3
6244.5	30°	6089.0	5955.6	5351.9	4411.2	3926.0	3574.1	3303.8	3088.9	2944.5	2877.8
6500.1	32.5°	6289.0	6114.9	5314.9	4233.4	3711.2	3281.5	2922.3	2703.7	2622.3	2537.1
6929.7	35°	6670.5	6326.0	5289.0	4133.4	3518.6	2988.9	2611.2	2422.3	2318.6	2192.6
7185.3	37.5°	6963.1	6692.7	5226.0	3926.0	3270.4	2703.7	2374.1	2203.7	2048.2	1914.8
7777.9	40°	7422.3	7203.8	5229.7	3633.4	2977.8	2459.3	2188.9	2011.1	1814.8	1700.0
8655.7	42.5°	8285.3	7707.5	5251.9	3400.1	2648.2	2259.3	2022.3	1811.1	1614.8	1518.5
9655.7	45°	9344.6	8400.1	5114.9	3188.9	2311.1	2070.4	1822.3	1611.1	1485.2	1414.8
11015.0	47.5°	10563.1	9077.9	4929.7	2792.6	2029.7	1870.4	1637.1	1514.8	1422.2	1381.5
12766.9	50°	11926.1	10048.3	4877.9	2429.7	1811.1	1700.0	1548.2	1455.6	1392.6	1344.5
14741.0	52.5°	13681.7	11178.0	4774.1	2055.6	1622.2	1563.0	1514.8	1451.9	1396.3	1355.6
16581.7	55°	15359.5	12429.8	4663.0	1748.2	1488.9	1496.3	1522.2	1466.7	1418.5	1355.6
18644.7	57.5°	17248.4	13707.6	4251.9	1522.2	1388.9	1463.0	1514.8	1451.9	1403.7	1355.6
20755.9	60°	18415.1	14426.1	3448.2	1325.9	1300.0	1400.0	1470.4	1403.7	1351.9	1370.4
21726.3	62.5°	18889.2	14048.4	2600.0	1203.7	1237.1	1314.8	1400.0	1374.1	1337.1	1407.4
21715.2	65°	18081.8	13178.0	1859.3	1100.0	1151.9	1229.6	1337.1	1366.7	1377.8	1514.8
19944.8	67.5°	16089.1	11474.3	1366.7	1014.8	1063.0	1177.8	1381.5	1429.7	1422.2	1592.6
16737.3	70°	12874.3	8974.2	1066.7	944.5	1029.6	1218.5	1444.5	1444.5	1392.6	1592.6
12766.9	72.5°	9366.8	6326.0	918.5	863.0	944.5	1118.5	1437.1	1433.4	1366.7	1455.6
8129.8	75°	5670.5	3681.5	811.1	781.5	811.1	959.3	1374.1	1351.9	1259.3	1251.9
3911.2	77.5°	2826.0	1851.9	663.0	692.6	707.4	803.7	1207.4	1240.8	1114.8	1085.2
1544.5	80°	1192.6	807.4	551.9	596.3	596.3	677.8	1003.7	1025.9	925.9	870.4
611.1	82.5°	544.5	463.0	470.4	518.5	485.2	525.9	796.3	822.2	751.9	659.3
259.3	85°	229.6	263.0	359.3	407.4	359.3	340.7	548.2	577.8	488.9	407.4
111.1	87.5°	103.7	144.4	225.9	296.3	181.5	159.3	292.6	303.7	244.4	181.5
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>
4248.2
4244.5
4400.1
4555.6
4548.2
4429.7
4351.9
4270.4
4100.1
3881.5
3644.5
3296.3
2914.9
2533.4
2181.5
1918.5
1711.1
1525.9
1429.7
1374.1
1351.9
1351.9
1351.9
1351.9
1355.6
1388.9
1514.8
1603.7
1559.3
1403.7
1237.1
1066.7
851.9
644.5
411.1
170.4
0.0

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