

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: P477666

Luminaire Tested: **IFLD-S-SA6C-727-U-T3R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477666
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-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (96) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

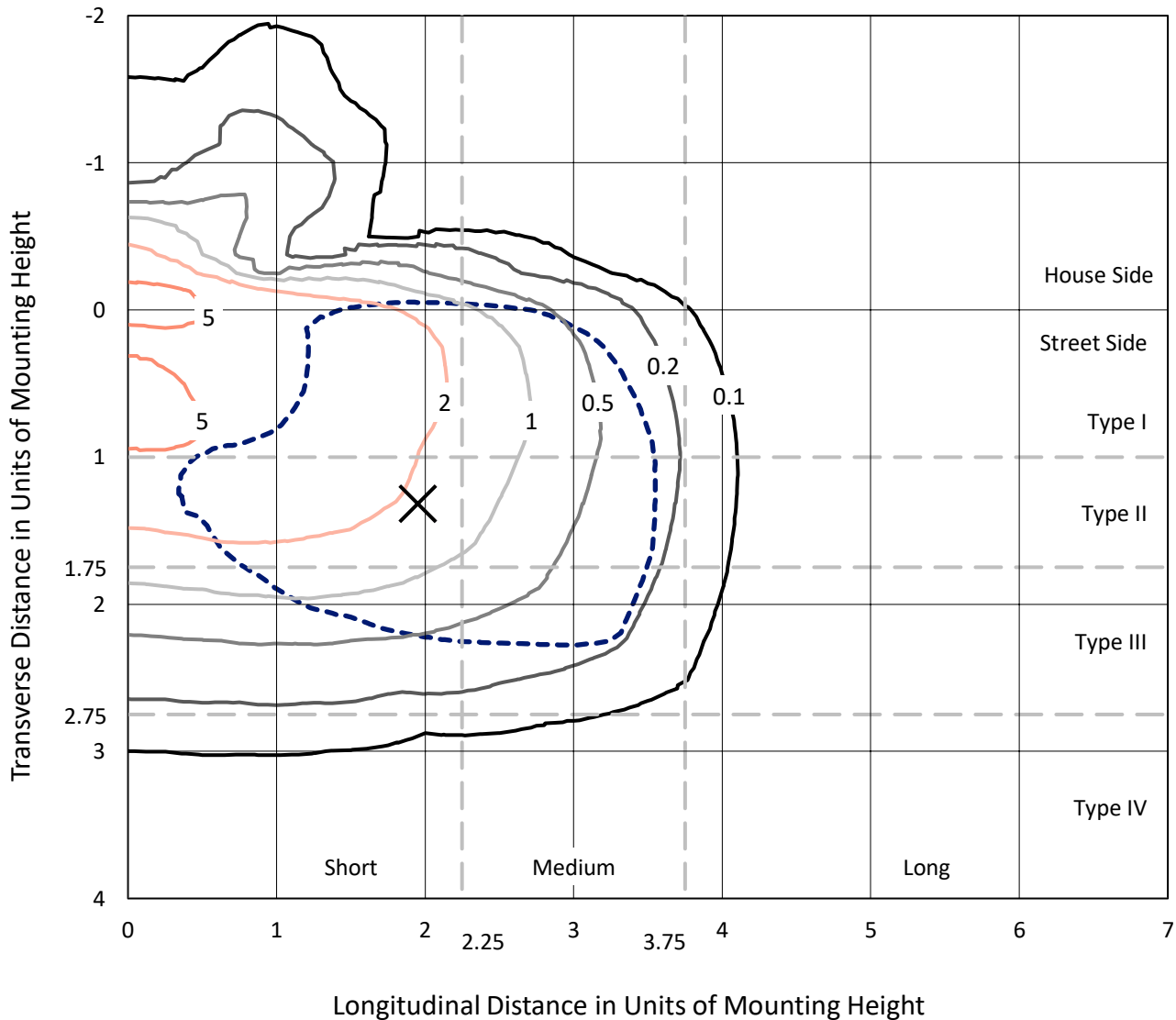
Lumens per Lamp: N/A
Luminaire Lumens: 34134.6 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 321.5
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

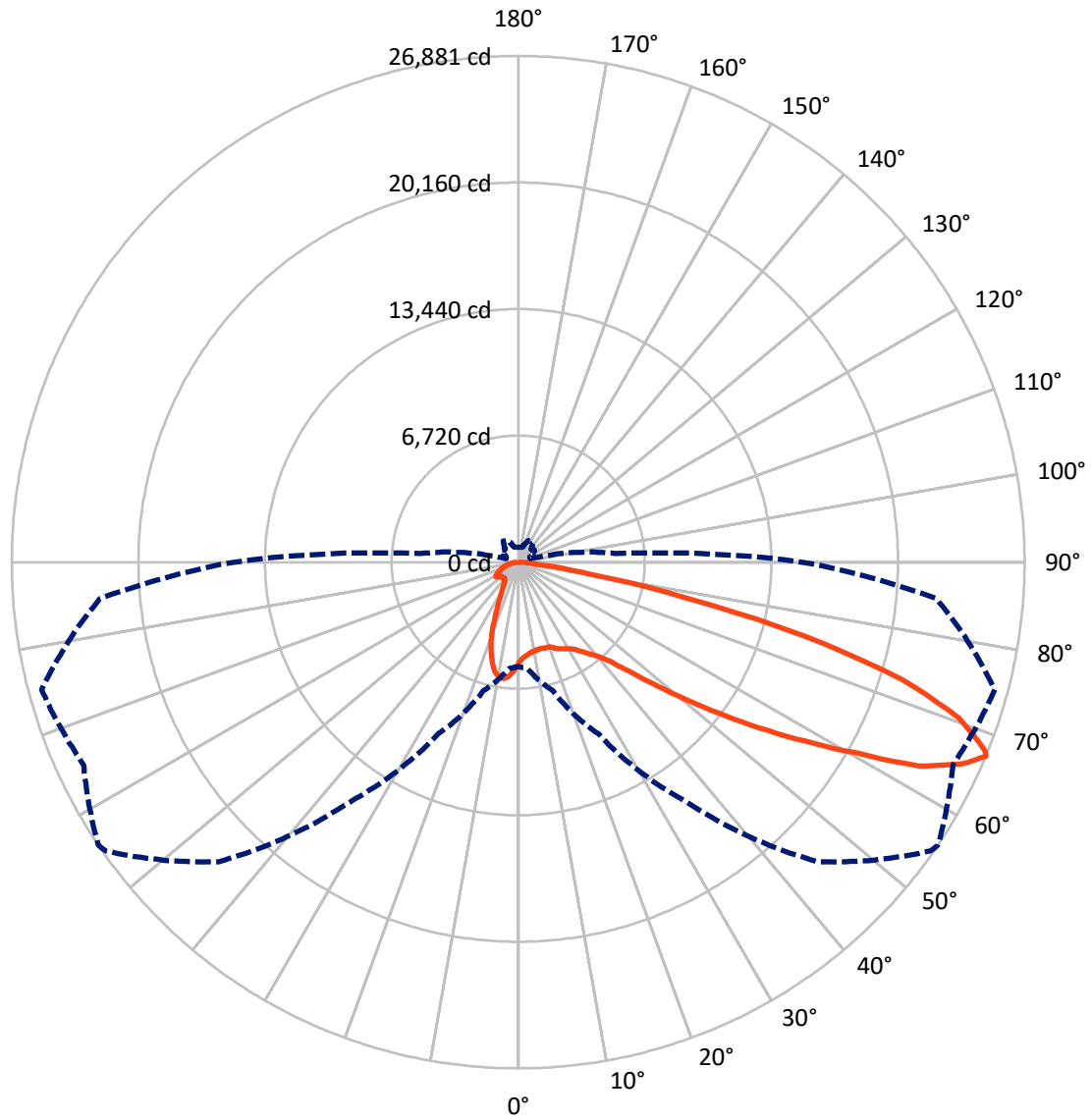
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.6 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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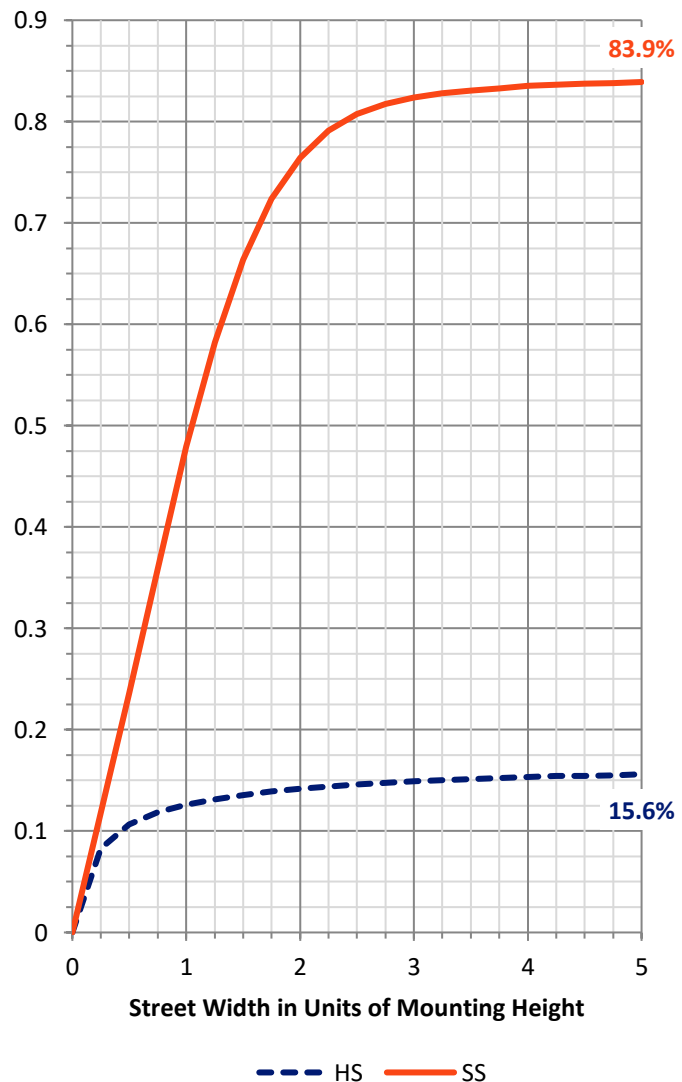
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5403.9	0.0	5403.9
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	28730.8	0.0	28730.8
	% Fixture	84.2	0.0	84.2
Total	Lumens	34134.6	0.0	34134.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	511.7	1.5
10°-20°	1395.9	4.1
20°-30°	2189.2	6.4
30°-40°	3125.1	9.2
40°-50°	4716.7	13.8
50°-60°	7508.1	22.0
60°-70°	9598.6	28.1
70°-80°	4679.9	13.7
80°-90°	409.4	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°	34134.6	100.0
0°-180°	34134.6	100.0

Coefficient of Utilization

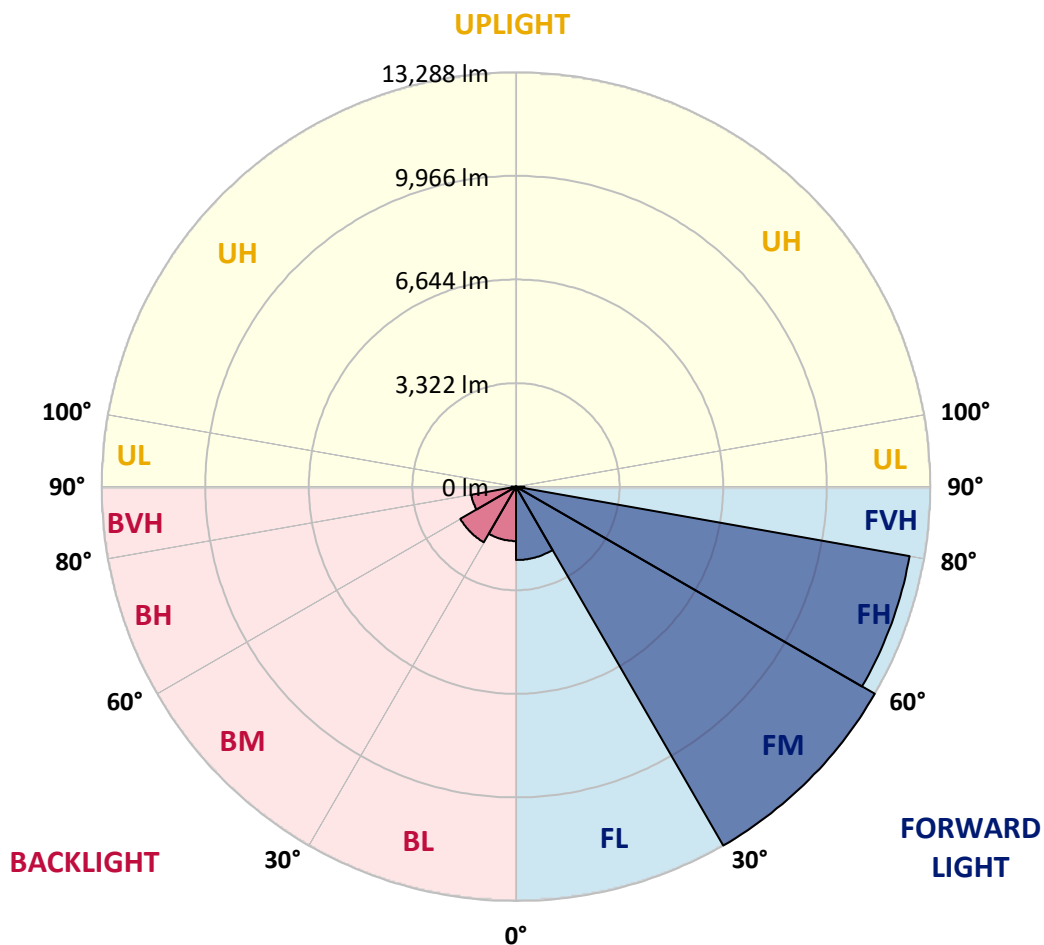


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2352.3	6.9			
FM (30°-60°)	13288.3	38.9			
FH (60°-80°)	12818.3	37.6			G5
FVH (80°-90°)	271.9	0.8			G3/500
BL (0°-30°)	1744.5	5.1	B3/2500		
BM (30°-60°)	2061.6	6.0	B2/2500		
BH (60°-80°)	1460.2	4.3	B3/2500		G3/2500
BVH (80°-90°)	137.5	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°	5311.3	5311.3	5311.3	5311.3	5311.3	5311.3	5311.3	5311.3	5311.3	5311.3
2.5°	4879.0	4859.0	4883.0	4859.0	4967.0	5031.1	5051.1	5079.1	5179.2	5275.2
5°	4674.9	4586.8	4682.9	4714.9	4722.9	4831.0	4943.0	4963.0	5015.1	5171.2
7.5°	4334.7	4434.7	4398.7	4494.8	4594.8	4702.9	4887.0	4835.0	5027.1	5175.2
10°	4262.6	4270.6	4310.6	4346.7	4434.7	4574.8	4831.0	4798.9	4995.1	5311.3
12.5°	4334.7	4334.7	4322.6	4294.6	4394.7	4530.8	4734.9	4750.9	5059.1	5351.3
15°	4586.8	4634.8	4506.8	4526.8	4486.7	4530.8	4710.9	4746.9	5083.1	5383.3
17.5°	5203.2	5187.2	5035.1	4823.0	4646.8	4618.8	4742.9	4782.9	5059.1	5475.4
20°	5803.6	5771.5	5507.4	5287.2	4939.0	4774.9	4794.9	4798.9	5099.1	5535.4
22.5°	6472.0	6556.0	6267.8	5819.6	5387.3	4979.1	4899.0	4963.0	5191.2	5567.4
25°	7520.6	7340.5	7092.3	6504.0	5807.6	5295.2	5071.1	5103.1	5279.2	5647.5
27.5°	8277.1	8205.0	7816.8	7340.5	6395.9	5543.4	5163.2	5223.2	5439.3	5643.5
30°	9005.5	9005.5	8769.4	8056.9	7016.3	5959.7	5359.3	5331.3	5363.3	5635.5
32.5°	9858.0	9742.0	9401.8	8929.5	7796.8	6339.9	5515.4	5523.4	5523.4	5783.5
35°	10306.3	10494.4	10266.3	9497.8	8393.1	6972.3	5891.6	5831.6	5787.5	5947.6
37.5°	10962.7	11074.8	10834.6	10382.4	9133.6	7484.6	6223.8	6175.8	5919.6	6075.7
40°	11359.0	11338.9	11330.9	11122.8	10114.2	8089.0	6712.1	6588.0	6243.8	6528.0
42.5°	11583.1	11543.1	12035.4	11907.3	11038.8	8977.5	7324.5	7256.4	6876.2	7332.5
45°	11835.3	12131.4	12535.7	12895.9	12115.4	10226.3	8361.1	8265.1	7924.9	8505.2
47.5°	12055.4	12419.6	12935.9	13320.2	13088.0	11583.1	9641.9	9665.9	9441.8	10038.2
50°	12423.6	12459.6	13160.1	13936.5	14116.6	12835.9	11363.0	11322.9	11222.9	12059.4
52.5°	12311.5	12419.6	13304.2	14296.8	14592.9	14160.7	13212.1	13332.2	13200.1	14252.7
55°	10486.4	10810.6	13216.1	14677.0	15721.6	15657.6	15589.6	15509.5	15501.5	16718.2
57.5°	9657.9	9922.1	11643.1	15097.3	16930.4	17402.7	17842.9	17931.0	17927.0	19395.9
60°	9113.6	9385.8	11006.7	14869.1	17959.0	19688.1	20532.6	20544.6	20520.6	22257.6
62.5°	8048.9	8313.1	9906.1	13620.3	18243.2	21797.4	23678.5	23834.6	22733.9	24723.1
65°	6768.1	6984.3	8389.1	11711.2	17486.7	23138.2	26044.0	25859.8	24599.1	26132.0
67°	5535.4	5679.5	7048.3	10054.2	15509.5	22493.8	26728.4	26880.5	25459.6	26192.0
67.5°	5183.2	5315.3	6608.0	9489.8	14757.0	22005.5	26752.4	26728.4	25475.6	26204.1
70°	3598.2	3654.2	4502.8	6528.0	10870.7	18591.4	24799.2	24855.2	24407.0	24783.2
72.5°	2385.5	2469.5	3009.8	4114.5	6407.9	13528.3	20728.7	21329.1	21044.9	20320.5
75°	1536.9	1585.0	1969.2	2449.5	3153.9	7704.7	15313.4	15713.6	15061.2	12567.7
77.5°	860.5	912.6	1188.7	1488.9	1536.9	3206.0	8601.3	9097.6	7708.7	5339.3
80°	536.3	604.4	896.5	884.5	732.4	1176.7	3546.2	3798.3	3081.9	1837.1
82.5°	404.2	456.3	692.4	620.4	412.3	524.3	1328.8	1424.9	1128.7	708.4
85°	276.2	348.2	500.3	384.2	216.1	252.2	528.3	568.3	516.3	344.2
87.5°	100.1	148.1	260.2	192.1	96.1	76.0	172.1	192.1	184.1	156.1
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°
5311.3	0°	5311.3	5311.3	5311.3	5311.3	5311.3	5311.3	5311.3	5311.3	5311.3	5311.3
5359.3	2.5°	5435.3	5491.4	5519.4	5683.5	5751.5	5739.5	5755.5	5779.5	5803.6	5835.6
5427.3	5°	5479.4	5651.5	5743.5	5935.6	6063.7	6007.7	6079.7	6059.7	6031.7	6027.7
5551.4	7.5°	5623.4	5843.6	6119.7	6171.8	6227.8	6087.7	5967.7	5803.6	5763.5	5623.4
5655.5	10°	5879.6	6059.7	6395.9	6415.9	6167.8	5807.6	5539.4	5199.2	5195.2	4991.1
5815.6	12.5°	6123.8	6327.9	6600.0	6484.0	5891.6	5399.3	4963.0	4590.8	4434.7	4330.7
5911.6	15°	6275.8	6612.1	6756.1	6255.8	5407.3	4742.9	4178.6	3778.3	3618.2	3542.2
6031.7	17.5°	6415.9	6884.2	6820.2	5855.6	4810.9	4066.5	3394.1	3045.9	3001.8	2945.8
6223.8	20°	6608.0	6984.3	6592.0	5335.3	4134.5	3194.0	2765.7	2597.6	2637.6	2661.6
6243.8	22.5°	6788.2	7036.3	6303.9	4766.9	3266.0	2529.5	2317.4	2353.4	2413.5	2493.5
6291.9	25°	6868.2	7120.4	5915.6	3982.4	2485.5	2129.3	2081.3	2141.3	2241.4	2245.4
6359.9	27.5°	6920.2	7060.3	5447.3	3218.0	1965.2	1861.1	1933.2	1977.2	1989.2	2037.2
6504.0	30°	7012.3	6936.3	4855.0	2301.4	1649.0	1653.0	1745.1	1745.1	1745.1	1781.1
6648.1	32.5°	7172.4	6852.2	4162.6	1681.0	1420.9	1548.9	1524.9	1516.9	1500.9	1456.9
6832.2	35°	7272.5	6624.1	3286.0	1244.8	1276.8	1420.9	1412.9	1288.8	1080.7	976.6
7300.5	37.5°	7480.6	6508.0	2417.5	960.6	1192.7	1356.8	1312.8	1012.6	784.5	684.4
7880.8	40°	7928.9	6431.9	1673.0	840.5	1136.7	1324.8	1172.7	864.5	600.4	424.3
8777.4	42.5°	8477.2	6435.9	1136.7	792.5	1140.7	1392.9	1128.7	740.5	424.3	340.2
9974.1	45°	9213.6	6375.9	780.5	792.5	1212.7	1504.9	1156.7	672.4	412.3	432.3
11475.0	47.5°	10006.1	6427.9	580.4	720.4	1224.8	1508.9	1056.6	660.4	396.2	500.3
13108.0	50°	10930.7	6480.0	480.3	664.4	1228.8	1460.9	972.6	644.4	412.3	528.3
14981.2	52.5°	11883.3	6644.1	408.3	628.4	1276.8	1440.9	972.6	668.4	412.3	460.3
17366.6	55°	13304.2	7064.3	588.4	784.5	1452.9	1573.0	1196.7	936.6	576.4	592.4
19652.0	57.5°	14873.1	7496.6	656.4	824.5	1492.9	1416.9	1288.8	1032.6	608.4	612.4
21429.1	60°	15905.7	7512.6	652.4	804.5	1396.9	1224.8	1260.8	1088.7	620.4	524.3
22529.8	62.5°	16318.0	7024.3	680.4	804.5	1300.8	1144.7	1292.8	1172.7	640.4	656.4
22842.0	65°	15849.7	6015.7	656.4	720.4	1144.7	1024.6	1300.8	1188.7	700.4	660.4
22281.7	67°	15117.3	5183.2	668.4	684.4	1064.7	972.6	1368.8	1248.8	812.5	792.5
21989.5	67.5°	14909.1	4963.0	664.4	664.4	1036.6	956.6	1384.8	1248.8	828.5	820.5
19407.9	70°	13140.1	4022.5	680.4	656.4	916.6	908.6	1472.9	1316.8	952.6	960.6
14256.7	72.5°	10002.1	3049.9	676.4	656.4	796.5	868.5	1484.9	1360.8	1036.6	960.6
7984.9	75°	5683.5	1825.1	596.4	572.4	628.4	756.5	1388.9	1296.8	1008.6	860.5
3190.0	77.5°	2349.4	940.6	548.3	516.3	520.3	616.4	1156.7	1208.7	960.6	732.4
1064.7	80°	876.5	564.3	440.3	412.3	400.2	452.3	824.5	964.6	820.5	600.4
468.3	82.5°	456.3	352.2	300.2	300.2	272.2	288.2	444.3	640.4	620.4	412.3
188.1	85°	232.1	200.1	172.1	168.1	152.1	136.1	224.1	380.2	356.2	228.1
84.1	87.5°	124.1	112.1	72.0	68.0	56.0	36.0	40.0	76.0	124.1	100.1
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>
5311.3
5867.6
6063.7
5671.5
4983.1
4306.6
3526.2
2973.8
2633.6
2449.5
2285.4
2081.3
1821.1
1432.9
1024.6
680.4
412.3
332.2
440.3
556.3
612.4
472.3
624.4
592.4
540.3
664.4
648.4
780.5
804.5
888.5
852.5
768.5
692.4
548.3
324.2
188.1
72.0
0.0

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