

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: P477248

Luminaire Tested: **IFLD-L-SA7D-722-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477248
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-722-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (112) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

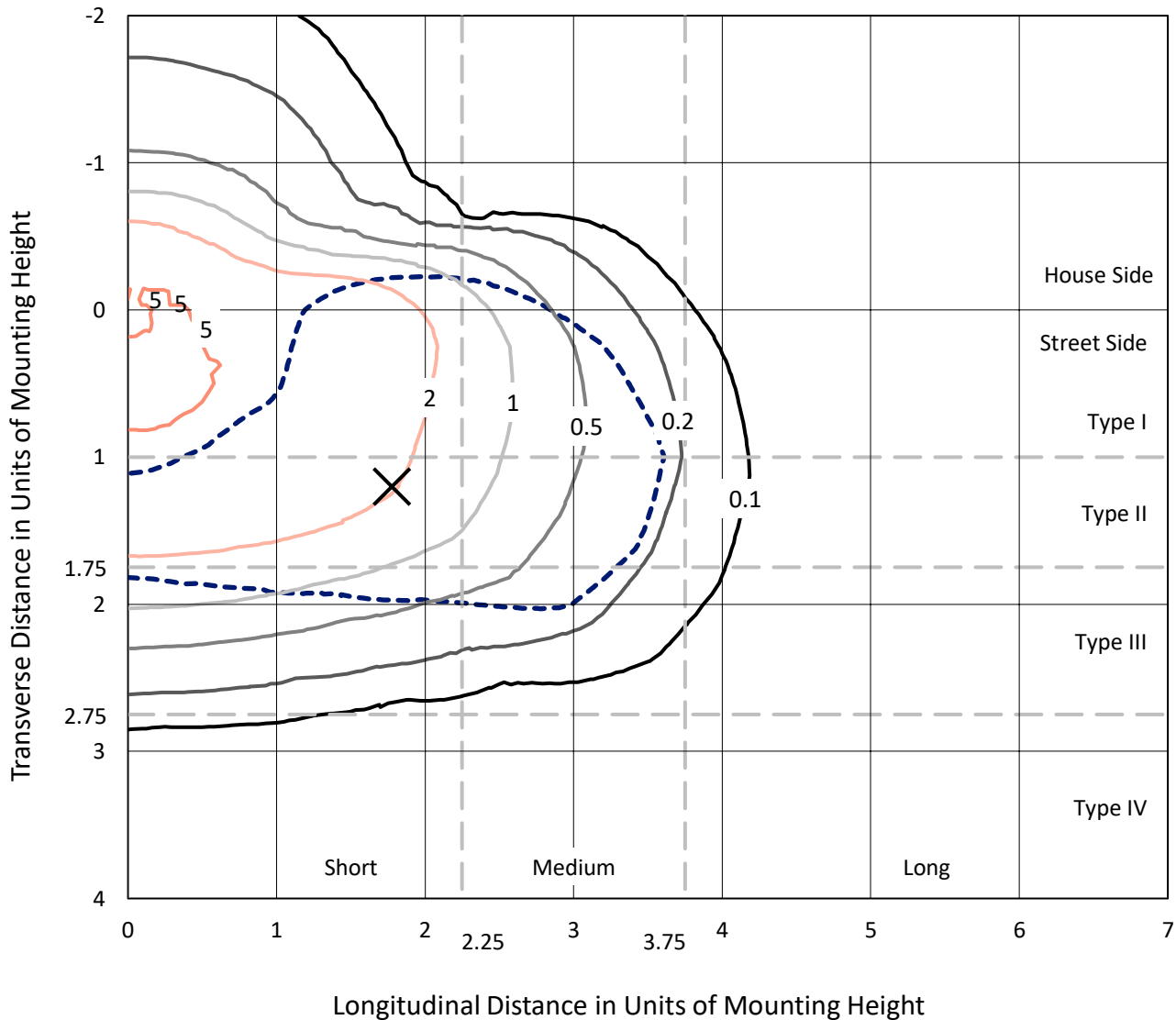
Lumens per Lamp: N/A
Luminaire Lumens: 36596.1 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 422.6
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

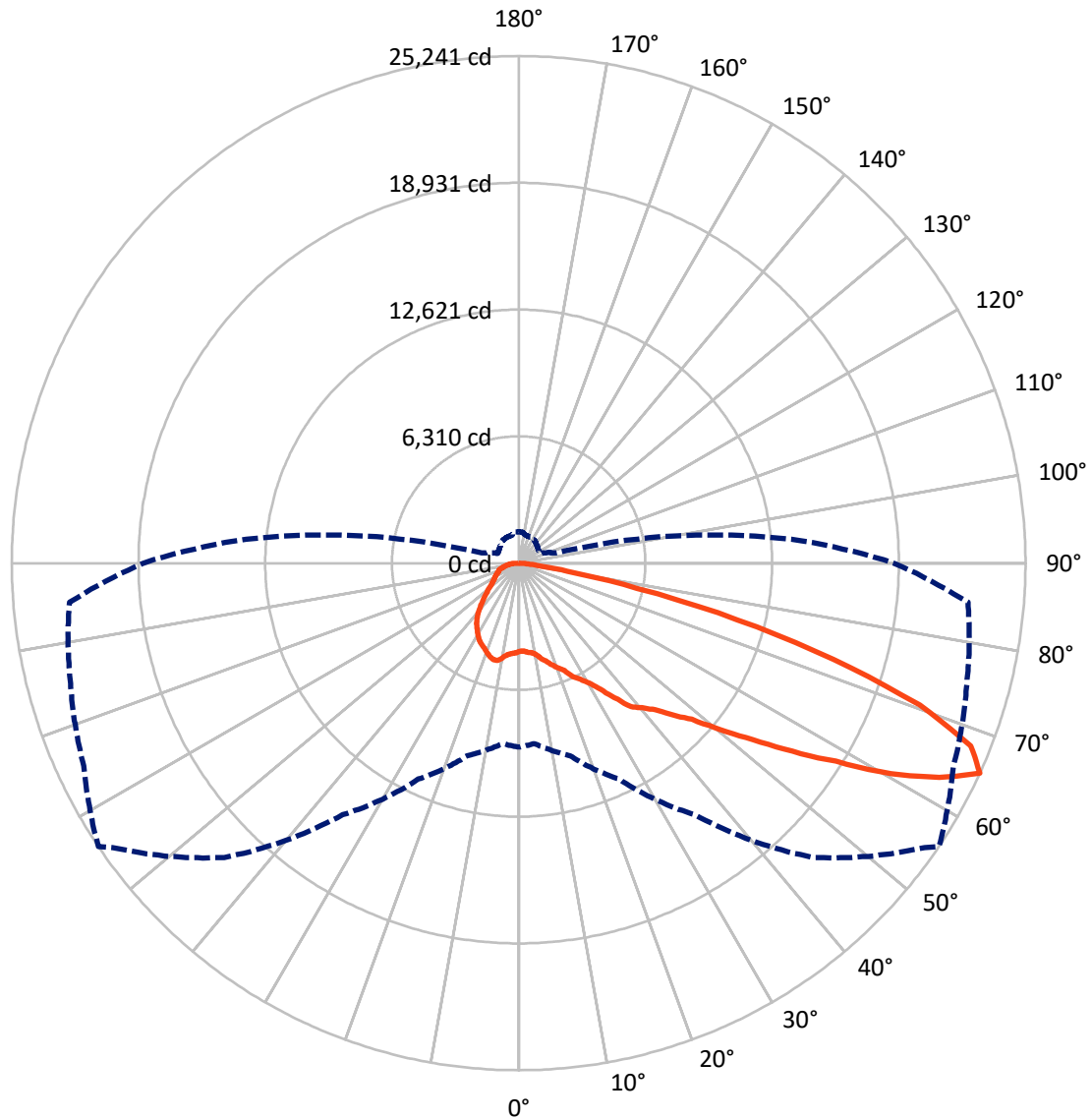
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.6 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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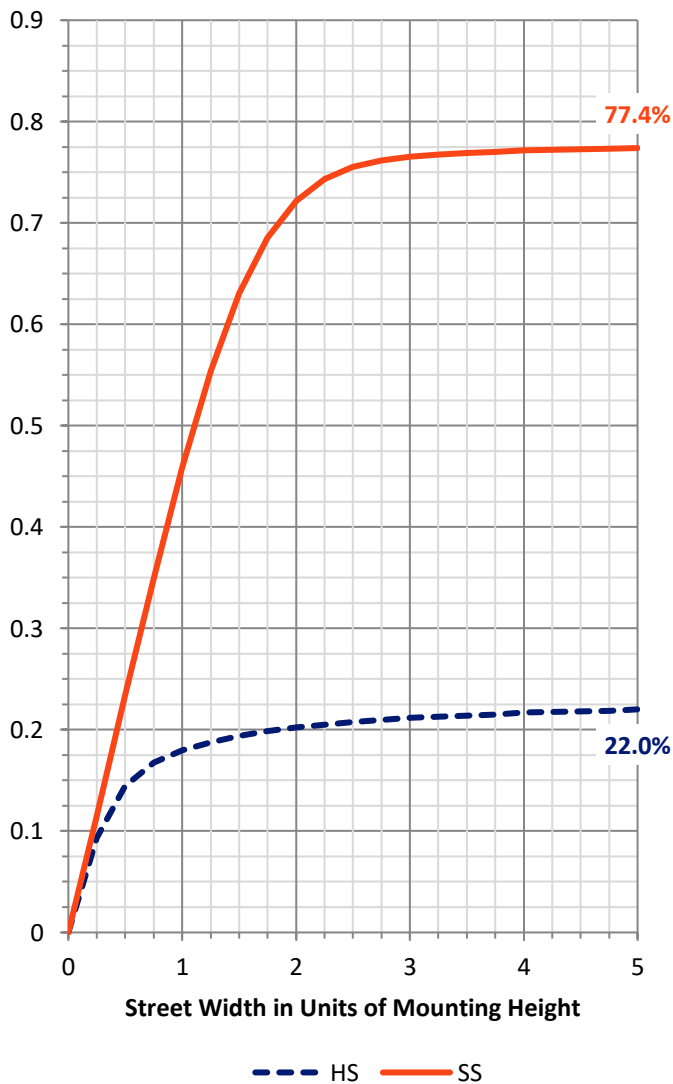
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8207.3	0.0	8207.3
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	28388.8	0.0	28388.8
	% Fixture	77.6	0.0	77.6
Total	Lumens	36596.1	0.0	36596.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	435.3	1.2
10°-20°	1413.4	3.9
20°-30°	2516.7	6.9
30°-40°	3768.7	10.3
40°-50°	5583.8	15.3
50°-60°	8603.9	23.5
60°-70°	9740.7	26.6
70°-80°	4042.5	11.0
80°-90°	491.1	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°	36596.1	100.0
0°-180°	36596.1	100.0

Coefficient of Utilization

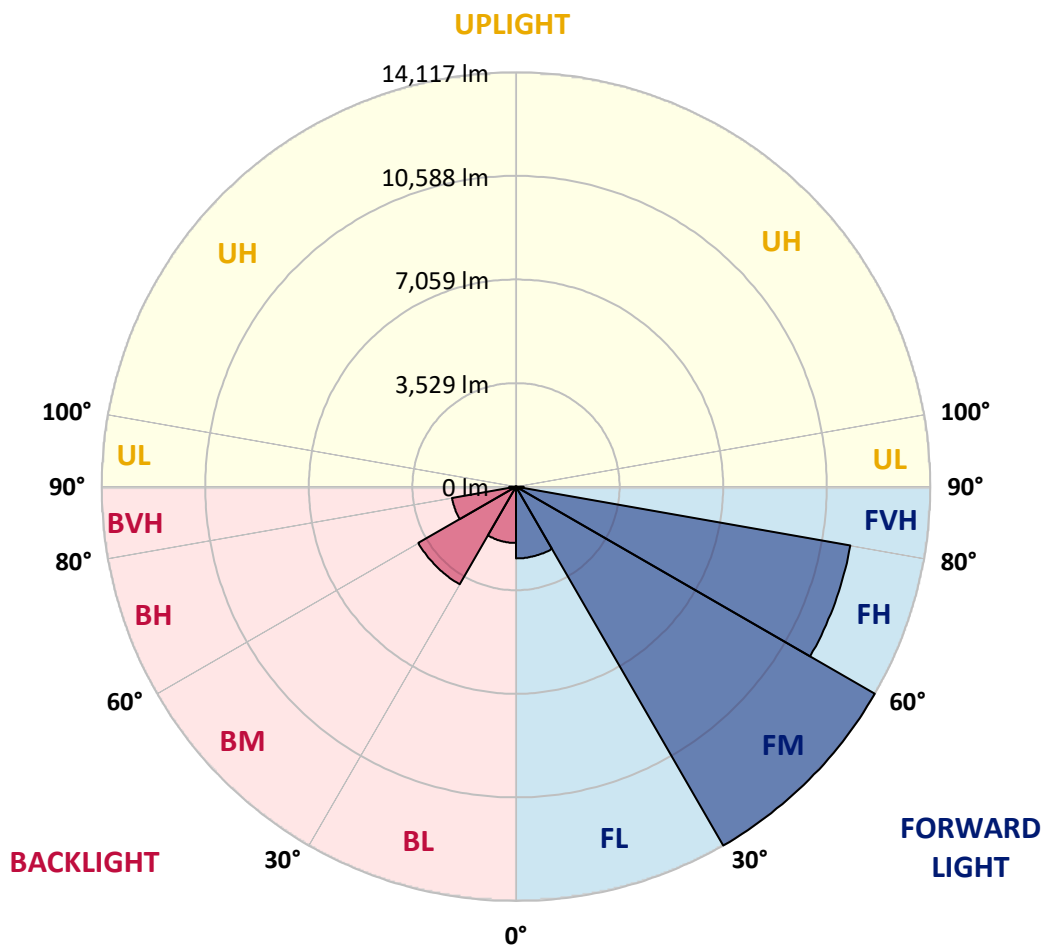


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2445.7	6.7			
FM (30°-60°)	14117.2	38.6			
FH (60°-80°)	11566.9	31.6			G4/12000
FVH (80°-90°)	259.1	0.7			G3/500
BL (0°-30°)	1919.8	5.2	B3/2500		
BM (30°-60°)	3839.2	10.5	B3/5000		
BH (60°-80°)	2216.3	6.1	B3/2500		G3/2500
BVH (80°-90°)	232.1	0.6			G3/500
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°	4392.6	4392.6	4392.6	4392.6	4392.6	4392.6	4392.6	4392.6	4392.6	4392.6
2.5°	4277.7	4300.7	4285.3	4331.3	4369.6	4369.6	4400.2	4377.3	4407.9	4450.0
5°	4419.4	4327.5	4377.3	4400.2	4388.7	4407.9	4377.3	4453.9	4404.1	4484.5
7.5°	4453.9	4488.3	4530.4	4492.1	4526.6	4507.5	4511.3	4499.8	4473.0	4538.1
10°	4706.6	4656.8	4752.6	4695.1	4687.5	4679.8	4664.5	4607.0	4672.1	4676.0
12.5°	4997.7	4951.7	4947.9	4901.9	4963.2	4852.1	4875.1	4844.5	4856.0	4871.3
15°	5208.3	5189.1	5277.2	5223.6	5143.2	5093.4	5147.0	5062.8	5104.9	5097.2
17.5°	5625.7	5621.9	5556.8	5468.7	5422.7	5350.0	5338.5	5304.0	5334.7	5319.3
20°	5916.8	5958.9	5970.4	5867.0	5690.8	5610.4	5591.3	5564.4	5598.9	5587.4
22.5°	6361.0	6295.9	6345.7	6165.7	6100.6	5909.1	5840.2	5801.9	5966.6	5924.4
25°	6644.4	6713.3	6663.5	6602.3	6456.7	6219.3	6169.5	6253.8	6318.9	6272.9
27.5°	7283.9	7215.0	7169.1	6985.2	6889.5	6640.6	6583.1	6552.5	6567.8	6594.6
30°	7770.3	7808.6	7705.2	7575.0	7333.7	7081.0	6946.9	6920.1	6866.5	6820.6
32.5°	8463.5	8406.0	8344.7	8260.5	8053.7	7720.5	7590.3	7490.7	7329.9	7115.4
35°	8796.6	8961.3	8915.4	8689.4	8532.4	8406.0	8367.7	8214.5	8080.5	7743.5
37.5°	9351.9	9420.9	9355.8	9283.0	9210.2	9076.2	9030.3	9072.4	8808.1	8252.8
40°	9711.9	9857.5	9991.5	9788.5	9773.2	9800.0	9516.6	9466.8	8923.0	8632.0
42.5°	10447.2	10508.5	10535.3	10527.6	10615.7	10615.7	10075.7	9968.5	9581.7	9344.3
45°	11419.9	11469.7	11565.5	11634.4	11534.8	11584.6	10814.9	10772.7	10428.1	10382.1
47.5°	12262.5	12381.2	12595.6	12798.6	12928.8	12760.3	11917.8	11619.1	11531.0	11806.7
50°	12997.7	12856.0	13357.7	13564.5	14135.1	14414.7	13135.6	13016.9	12875.2	13403.7
52.5°	13070.5	13262.0	13970.5	14384.1	15559.8	16076.8	14629.2	14579.4	14407.0	15016.0
55°	13591.3	13568.4	14280.7	15176.8	16574.6	17443.9	16574.6	16544.0	16168.7	16746.9
57.5°	13503.3	13736.9	14299.8	15552.1	17489.9	18910.7	18830.3	18619.6	18095.0	18566.0
60°	13204.5	13265.8	13951.3	15540.6	18022.2	20415.7	21265.9	21308.0	20235.7	20611.0
62.5°	11511.8	11653.5	12522.9	14319.0	17643.1	21453.6	23644.1	23494.7	22636.9	22208.0
65°	9156.6	9014.9	9918.7	11860.3	15284.0	20718.3	24685.8	25241.0	23893.0	23107.9
67.5°	5614.2	5579.8	6449.1	8160.9	11435.3	17631.6	23854.7	24287.5	23544.5	22916.5
70°	2891.4	2803.3	3347.1	4553.4	7188.2	12936.5	20760.4	21185.5	21894.0	20553.6
72.5°	1348.0	1328.9	1619.9	2240.3	3661.1	7605.6	16076.8	16383.1	17876.7	17329.0
75°	792.7	804.2	968.9	1171.9	1784.6	3584.5	10669.3	11262.9	12882.9	12488.4
77.5°	593.6	593.6	689.3	815.7	1041.7	1386.3	5265.7	6050.8	7532.9	6774.6
80°	436.6	444.2	528.5	612.7	723.8	716.1	2091.0	2451.0	3454.3	2952.6
82.5°	340.8	352.3	409.8	455.7	509.3	432.7	857.8	922.9	1420.8	1129.7
85°	237.4	245.1	321.7	310.2	310.2	241.3	356.2	375.3	563.0	536.1
87.5°	57.4	65.1	157.0	172.3	130.2	72.8	111.1	126.4	203.0	233.6
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°
4392.6	0°	4392.6	4392.6	4392.6	4392.6	4392.6	4392.6	4392.6	4392.6	4392.6	4392.6
4469.2	2.5°	4411.7	4427.0	4492.1	4457.7	4476.8	4396.4	4461.5	4407.9	4453.9	4430.9
4503.6	5°	4534.3	4499.8	4538.1	4511.3	4511.3	4541.9	4587.9	4553.4	4622.4	4591.7
4530.4	7.5°	4584.1	4587.9	4610.9	4614.7	4595.5	4691.3	4695.1	4683.6	4748.7	4733.4
4714.3	10°	4706.6	4710.4	4752.6	4775.5	4756.4	4790.9	4752.6	4721.9	4718.1	4702.8
4859.8	12.5°	4901.9	4940.2	4932.6	4951.7	4955.5	4810.0	4721.9	4572.6	4553.4	4572.6
5074.3	15°	5081.9	5066.6	5074.3	5112.5	4951.7	4718.1	4561.1	4434.7	4442.4	4446.2
5353.8	17.5°	5296.4	5307.9	5319.3	5143.2	4848.3	4572.6	4434.7	4434.7	4396.4	4411.7
5549.1	20°	5541.5	5495.5	5395.9	5147.0	4668.3	4404.1	4361.9	4361.9	4316.0	4285.3
5759.8	22.5°	5732.9	5641.0	5491.7	5028.3	4507.5	4339.0	4235.6	4162.8	4109.2	4047.9
5993.4	25°	5855.5	5805.7	5514.7	4905.7	4388.7	4166.6	4013.4	3902.4	3833.5	3753.0
6177.2	27.5°	6043.1	5947.4	5579.8	4764.1	4258.5	3994.3	3756.9	3584.5	3454.3	3370.1
6456.7	30°	6295.9	6158.0	5533.8	4561.1	4059.4	3695.6	3416.0	3193.9	3044.6	2975.6
6721.0	32.5°	6502.7	6322.7	5495.5	4377.3	3837.3	3393.0	3021.6	2795.6	2711.4	2623.3
7165.2	35°	6897.2	6541.0	5468.7	4273.9	3638.1	3090.5	2699.9	2504.6	2397.3	2267.1
7429.5	37.5°	7199.7	6920.1	5403.6	4059.4	3381.6	2795.6	2454.8	2278.6	2117.8	1979.9
8042.2	40°	7674.6	7448.6	5407.4	3756.9	3079.0	2542.9	2263.3	2079.5	1876.5	1757.8
8949.8	42.5°	8566.9	7969.4	5430.4	3515.6	2738.2	2336.1	2091.0	1872.7	1669.7	1570.1
9983.8	45°	9662.1	8685.6	5288.7	3297.3	2389.7	2140.8	1884.2	1665.9	1535.7	1462.9
11389.3	47.5°	10922.1	9386.4	5097.2	2887.5	2098.6	1934.0	1692.7	1566.3	1470.6	1428.4
13200.7	50°	12331.4	10389.8	5043.6	2512.2	1872.7	1757.8	1600.8	1505.0	1439.9	1390.2
15241.9	52.5°	14146.6	11557.8	4936.4	2125.4	1677.4	1616.1	1566.3	1501.2	1443.8	1401.6
17145.2	55°	15881.4	12852.2	4821.5	1807.6	1539.5	1547.2	1574.0	1516.5	1466.7	1401.6
19278.3	57.5°	17834.6	14173.4	4396.4	1574.0	1436.1	1512.7	1566.3	1501.2	1451.4	1401.6
21461.2	60°	19040.9	14916.4	3565.4	1371.0	1344.2	1447.6	1520.4	1451.4	1397.8	1417.0
22464.6	62.5°	19531.1	14525.8	2688.4	1244.6	1279.1	1359.5	1447.6	1420.8	1382.5	1455.3
22453.1	65°	18696.2	13625.8	1922.5	1137.4	1191.0	1271.4	1382.5	1413.1	1424.6	1566.3
20622.5	67.5°	16635.9	11864.2	1413.1	1049.3	1099.1	1217.8	1428.4	1478.2	1470.6	1646.7
17306.1	70°	13311.8	9279.2	1102.9	976.6	1064.6	1259.9	1493.6	1493.6	1439.9	1646.7
13200.7	72.5°	9685.1	6541.0	949.7	892.3	976.6	1156.5	1485.9	1482.1	1413.1	1505.0
8406.0	75°	5863.2	3806.6	838.7	808.1	838.7	991.9	1420.8	1397.8	1302.1	1294.4
4044.1	77.5°	2922.0	1914.8	685.5	716.1	731.5	831.0	1248.5	1282.9	1152.7	1122.1
1597.0	80°	1233.1	834.9	570.6	616.6	616.6	700.8	1037.8	1060.8	957.4	900.0
631.9	82.5°	563.0	478.7	486.4	536.1	501.7	543.8	823.4	850.2	777.4	681.7
268.1	85°	237.4	271.9	371.5	421.3	371.5	352.3	566.8	597.4	505.5	421.3
114.9	87.5°	107.2	149.4	233.6	306.4	187.7	164.7	302.5	314.0	252.8	187.7
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>
4392.6
4388.7
4549.6
4710.4
4702.8
4580.2
4499.8
4415.6
4239.4
4013.4
3768.3
3408.4
3013.9
2619.5
2255.6
1983.7
1769.3
1577.8
1478.2
1420.8
1397.8
1397.8
1397.8
1397.8
1401.6
1436.1
1566.3
1658.2
1612.3
1451.4
1279.1
1102.9
880.8
666.4
425.1
176.2
0.0

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