

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: P477550

Luminaire Tested: **IFLD-S-SA6D-830-U-T3**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477550  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6D-830-U-T3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens  
Light Source: (96) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

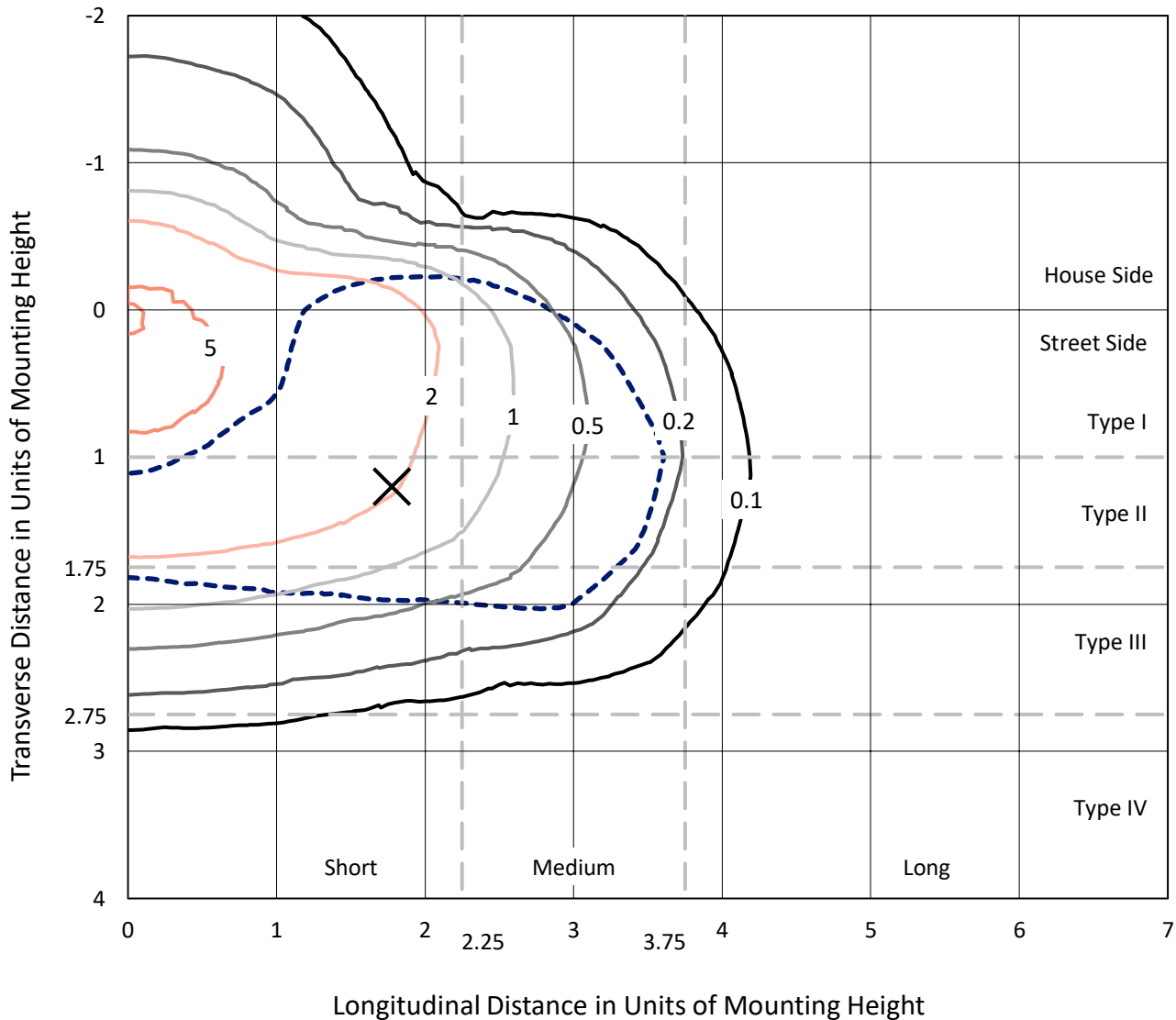
Lumens per Lamp: N/A  
Luminaire Lumens: 37003.4 lumens  
Efficiency: N/A  
Efficacy: 100.5 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 368.2  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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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 CATALOG NUMBER: IFLD-S-SA6D-830-U-T3

### Iso-Footcandle Lines of Horizontal Illumination

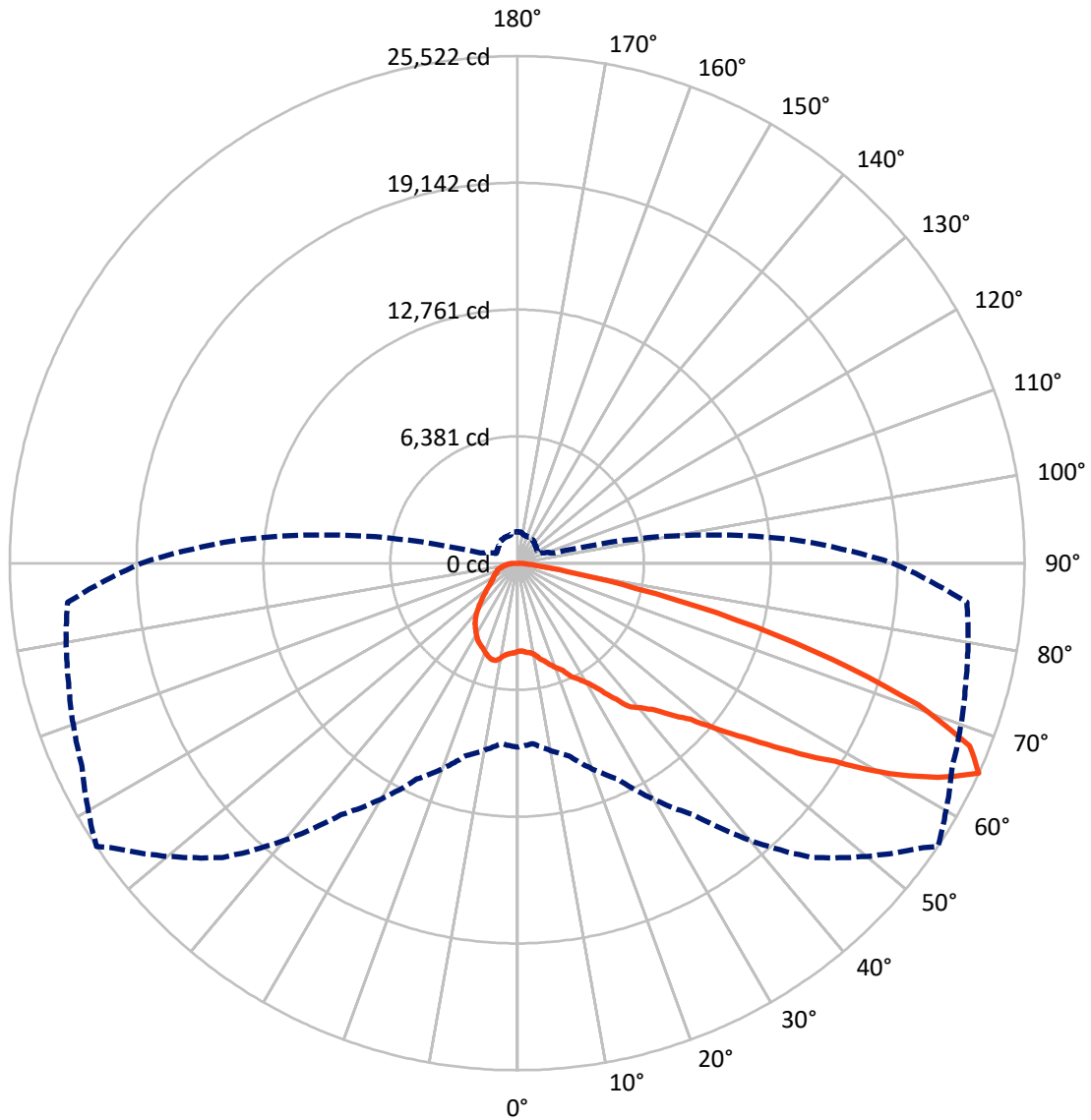
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.7 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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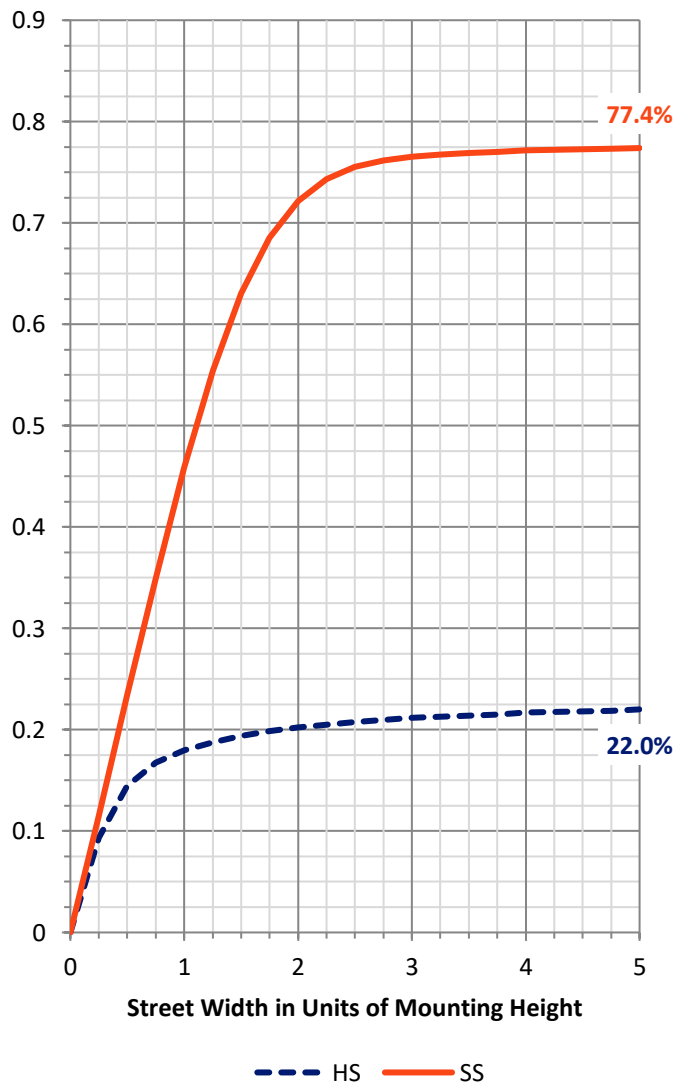
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8298.7	0.0	8298.7
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	28704.8	0.0	28704.8
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	37003.4	0.0	37003.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	440.1	1.2
10°-20°	1429.2	3.9
20°-30°	2544.7	6.9
30°-40°	3810.7	10.3
40°-50°	5646.0	15.3
50°-60°	8699.6	23.5
60°-70°	9849.1	26.6
70°-80°	4087.5	11.0
80°-90°	496.6	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°	37003.4	100.0
0°-180°	37003.4	100.0

**Coefficient of Utilization**

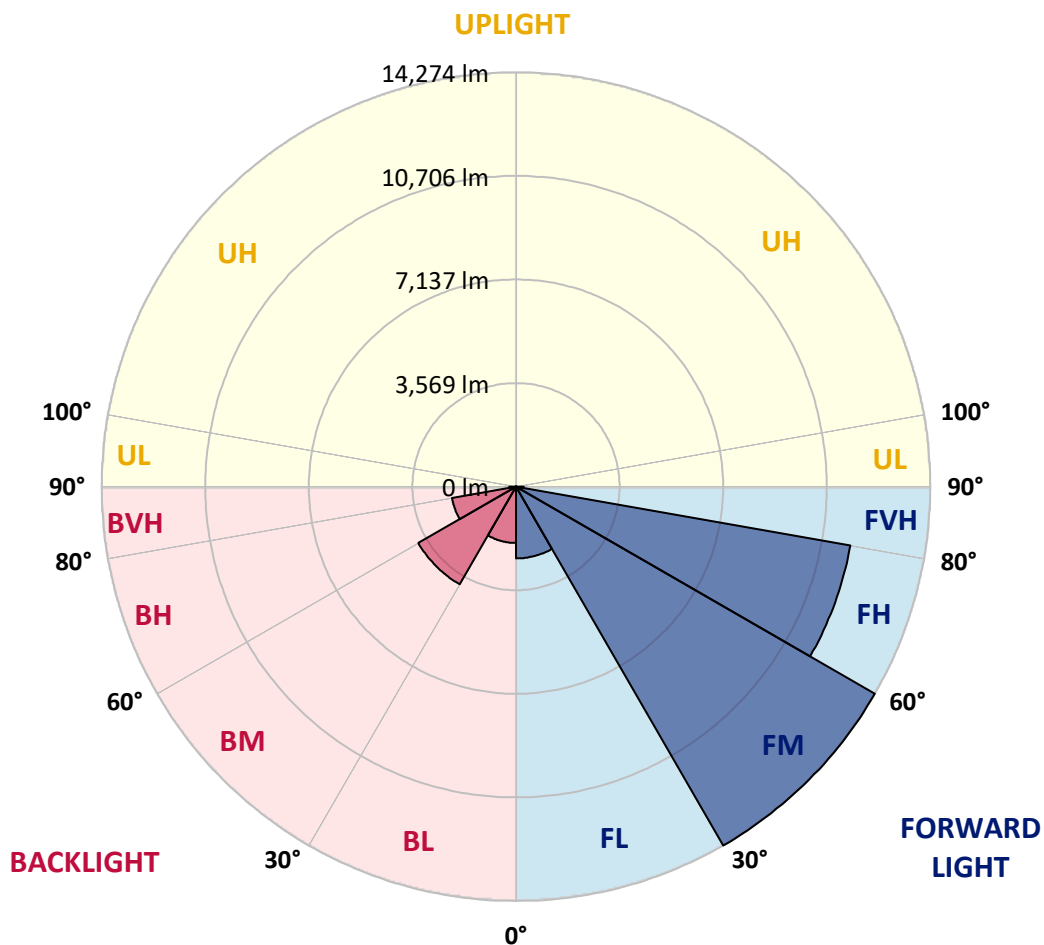


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2472.9	6.7			
FM (30°-60°)	14274.3	38.6			
FH (60°-80°)	11695.6	31.6			G4/12000
FVH (80°-90°)	261.9	0.7			G3/500
BL (0°-30°)	1941.1	5.2	B3/2500		
BM (30°-60°)	3882.0	10.5	B3/5000		
BH (60°-80°)	2240.9	6.1	B3/2500		G3/2500
BVH (80°-90°)	234.6	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°	4441.5	4441.5	4441.5	4441.5	4441.5	4441.5	4441.5	4441.5	4441.5	4441.5
2.5°	4325.3	4348.5	4333.0	4379.5	4418.2	4418.2	4449.2	4426.0	4457.0	4499.6
5°	4468.6	4375.6	4426.0	4449.2	4437.6	4457.0	4426.0	4503.4	4453.1	4534.4
7.5°	4503.4	4538.3	4580.9	4542.1	4577.0	4557.6	4561.5	4549.9	4522.8	4588.6
10°	4759.0	4708.7	4805.5	4747.4	4739.6	4731.9	4716.4	4658.3	4724.1	4728.0
12.5°	5053.3	5006.8	5002.9	4956.5	5018.4	4906.1	4929.4	4898.4	4910.0	4925.5
15°	5266.3	5246.9	5336.0	5281.7	5200.4	5150.1	5204.3	5119.1	5161.7	5154.0
17.5°	5688.3	5684.5	5618.6	5529.6	5483.1	5409.5	5397.9	5363.1	5394.0	5378.6
20°	5982.6	6025.2	6036.8	5932.3	5754.2	5672.8	5653.5	5626.4	5661.2	5649.6
22.5°	6431.8	6366.0	6416.3	6234.3	6168.5	5974.9	5905.2	5866.5	6033.0	5990.4
25°	6718.3	6788.0	6737.7	6675.8	6528.6	6288.5	6238.2	6323.4	6389.2	6342.7
27.5°	7365.0	7295.3	7248.8	7063.0	6966.2	6714.5	6656.4	6625.4	6640.9	6668.0
30°	7856.8	7895.5	7791.0	7659.3	7415.4	7159.8	7024.3	6997.2	6942.9	6896.5
32.5°	8557.7	8499.6	8437.6	8352.4	8143.3	7806.5	7674.8	7574.1	7411.5	7194.6
35°	8894.6	9061.1	9014.6	8786.1	8627.4	8499.6	8460.9	8306.0	8170.4	7829.7
37.5°	9456.0	9525.7	9459.9	9386.3	9312.8	9177.2	9130.8	9173.4	8906.2	8344.7
40°	9820.0	9967.2	10102.7	9897.5	9882.0	9909.1	9622.5	9572.2	9022.3	8728.0
42.5°	10563.5	10625.4	10652.6	10644.8	10733.9	10733.9	10187.9	10079.5	9688.4	9448.3
45°	11547.0	11597.4	11694.2	11763.9	11663.2	11713.5	10935.2	10892.6	10544.1	10497.7
47.5°	12398.9	12519.0	12735.8	12941.0	13072.7	12902.3	12050.4	11748.4	11659.3	11938.1
50°	13142.4	12999.1	13506.4	13715.5	14292.5	14575.1	13281.8	13161.8	13018.5	13552.9
52.5°	13216.0	13409.6	14126.0	14544.2	15732.9	16255.7	14792.0	14741.6	14567.4	15183.1
55°	13742.6	13719.4	14439.6	15345.7	16759.1	17638.1	16759.1	16728.1	16348.6	16933.3
57.5°	13653.5	13889.8	14459.0	15725.2	17684.6	19121.2	19039.8	18826.9	18296.4	18772.7
60°	13351.5	13413.5	14106.6	15713.6	18222.8	20642.9	21502.6	21545.2	20461.0	20840.4
62.5°	11640.0	11783.2	12662.2	14478.3	17839.4	21692.3	23907.3	23756.2	22888.9	22455.2
65°	9258.5	9115.3	10029.1	11992.3	15454.1	20948.9	24960.5	25522.0	24158.9	23365.1
67.5°	5676.7	5641.9	6520.9	8251.8	11562.5	17827.8	24120.2	24557.8	23806.6	23171.5
70°	2923.5	2834.5	3384.3	4604.1	7268.2	13080.5	20991.5	21421.3	22137.6	20782.4
72.5°	1363.0	1343.7	1638.0	2265.3	3701.9	7690.3	16255.7	16565.5	18075.6	17521.9
75°	801.6	813.2	979.7	1184.9	1804.5	3624.4	10788.1	11388.3	13026.2	12627.4
77.5°	600.2	600.2	697.0	824.8	1053.3	1401.8	5324.3	6118.2	7616.7	6850.0
80°	441.4	449.2	534.4	619.6	731.9	724.1	2114.2	2478.2	3492.8	2985.5
82.5°	344.6	356.2	414.3	460.8	515.0	437.6	867.4	933.2	1436.6	1142.3
85°	240.1	247.8	325.3	313.7	313.7	244.0	360.1	379.5	569.2	542.1
87.5°	58.1	65.8	158.8	174.3	131.7	73.6	112.3	127.8	205.2	236.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P477550

CATALOG NUMBER: IFLD-S-SA6D-830-U-T3

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4441.5	0°	4441.5	4441.5	4441.5	4441.5	4441.5	4441.5	4441.5	4441.5	4441.5	4441.5
4518.9	2.5°	4460.8	4476.3	4542.1	4507.3	4526.7	4445.3	4511.2	4457.0	4503.4	4480.2
4553.8	5°	4584.7	4549.9	4588.6	4561.5	4561.5	4592.5	4639.0	4604.1	4673.8	4642.8
4580.9	7.5°	4635.1	4639.0	4662.2	4666.1	4646.7	4743.5	4747.4	4735.8	4801.6	4786.1
4766.7	10°	4759.0	4762.9	4805.5	4828.7	4809.3	4844.2	4805.5	4774.5	4770.6	4755.1
4913.9	12.5°	4956.5	4995.2	4987.5	5006.8	5010.7	4863.5	4774.5	4623.5	4604.1	4623.5
5130.7	15°	5138.5	5123.0	5130.7	5169.4	5006.8	4770.6	4611.8	4484.1	4491.8	4495.7
5413.4	17.5°	5355.3	5366.9	5378.6	5200.4	4902.3	4623.5	4484.1	4484.1	4445.3	4460.8
5610.9	20°	5603.1	5556.7	5456.0	5204.3	4720.3	4453.1	4410.5	4410.5	4364.0	4333.0
5823.9	22.5°	5796.8	5703.8	5552.8	5084.3	4557.6	4387.3	4282.7	4209.1	4154.9	4093.0
6060.1	25°	5920.7	5870.3	5576.0	4960.3	4437.6	4213.0	4058.1	3945.8	3876.1	3794.8
6245.9	27.5°	6110.4	6013.6	5641.9	4817.1	4305.9	4038.8	3798.7	3624.4	3492.8	3407.6
6528.6	30°	6366.0	6226.6	5595.4	4611.8	4104.6	3736.7	3454.0	3229.5	3078.4	3008.7
6795.8	32.5°	6575.1	6393.1	5556.7	4426.0	3880.0	3430.8	3055.2	2826.7	2741.6	2652.5
7245.0	35°	6973.9	6613.8	5529.6	4321.4	3678.6	3124.9	2729.9	2532.4	2424.0	2292.4
7512.2	37.5°	7279.8	6997.2	5463.7	4104.6	3419.2	2826.7	2482.1	2304.0	2141.4	2002.0
8131.7	40°	7760.0	7531.5	5467.6	3798.7	3113.3	2571.2	2288.5	2102.6	1897.4	1777.4
9049.4	42.5°	8662.2	8058.1	5490.8	3554.7	2768.7	2362.1	2114.2	1893.5	1688.3	1587.6
10094.9	45°	9769.7	8782.3	5347.6	3334.0	2416.3	2164.6	1905.1	1684.4	1552.8	1479.2
11516.1	47.5°	11043.6	9490.9	5154.0	2919.7	2122.0	1955.5	1711.5	1583.7	1486.9	1444.3
13347.6	50°	12468.6	10505.4	5099.7	2540.2	1893.5	1777.4	1618.6	1521.8	1456.0	1405.6
15411.5	52.5°	14304.1	11686.4	4991.3	2149.1	1696.0	1634.1	1583.7	1517.9	1459.8	1417.2
17336.1	55°	16058.2	12995.3	4875.2	1827.7	1556.6	1564.4	1591.5	1533.4	1483.1	1417.2
19492.9	57.5°	18033.1	14331.2	4445.3	1591.5	1452.1	1529.5	1583.7	1517.9	1467.6	1417.2
21700.1	60°	19252.8	15082.4	3605.1	1386.3	1359.2	1463.7	1537.3	1467.6	1413.4	1432.7
22714.6	62.5°	19748.5	14687.4	2718.3	1258.5	1293.3	1374.6	1463.7	1436.6	1397.9	1471.5
22703.0	65°	18904.3	13777.5	1943.9	1150.1	1204.3	1285.6	1397.9	1428.9	1440.5	1583.7
20852.1	67.5°	16821.0	11996.2	1428.9	1061.0	1111.3	1231.4	1444.3	1494.7	1486.9	1665.1
17498.7	70°	13459.9	9382.5	1115.2	987.4	1076.5	1274.0	1510.2	1510.2	1456.0	1665.1
13347.6	72.5°	9792.9	6613.8	960.3	902.2	987.4	1169.4	1502.4	1498.6	1428.9	1521.8
8499.6	75°	5928.4	3849.0	848.0	817.0	848.0	1002.9	1436.6	1413.4	1316.6	1308.8
4089.1	77.5°	2954.5	1936.1	693.1	724.1	739.6	840.3	1262.4	1297.2	1165.5	1134.6
1614.7	80°	1246.9	844.1	577.0	623.4	623.4	708.6	1049.4	1072.6	968.1	910.0
638.9	82.5°	569.2	484.0	491.8	542.1	507.3	549.9	832.5	859.6	786.1	689.3
271.1	85°	240.1	274.9	375.6	425.9	375.6	356.2	573.1	604.1	511.1	425.9
116.2	87.5°	108.4	151.0	236.2	309.8	189.7	166.5	305.9	317.5	255.6	189.7
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>
4441.5
4437.6
4600.2
4762.9
4755.1
4631.2
4549.9
4464.7
4286.6
4058.1
3810.3
3446.3
3047.5
2648.6
2280.8
2005.8
1789.0
1595.4
1494.7
1436.6
1413.4
1413.4
1413.4
1413.4
1417.2
1452.1
1583.7
1676.7
1630.2
1467.6
1293.3
1115.2
890.6
673.8
429.8
178.1
0.0

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