

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: P477954

Luminaire Tested: **IFLD-L-SA8C-830-U-T3R**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477954  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8C-830-U-T3R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R  
distribution lens  
Light Source: (128) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

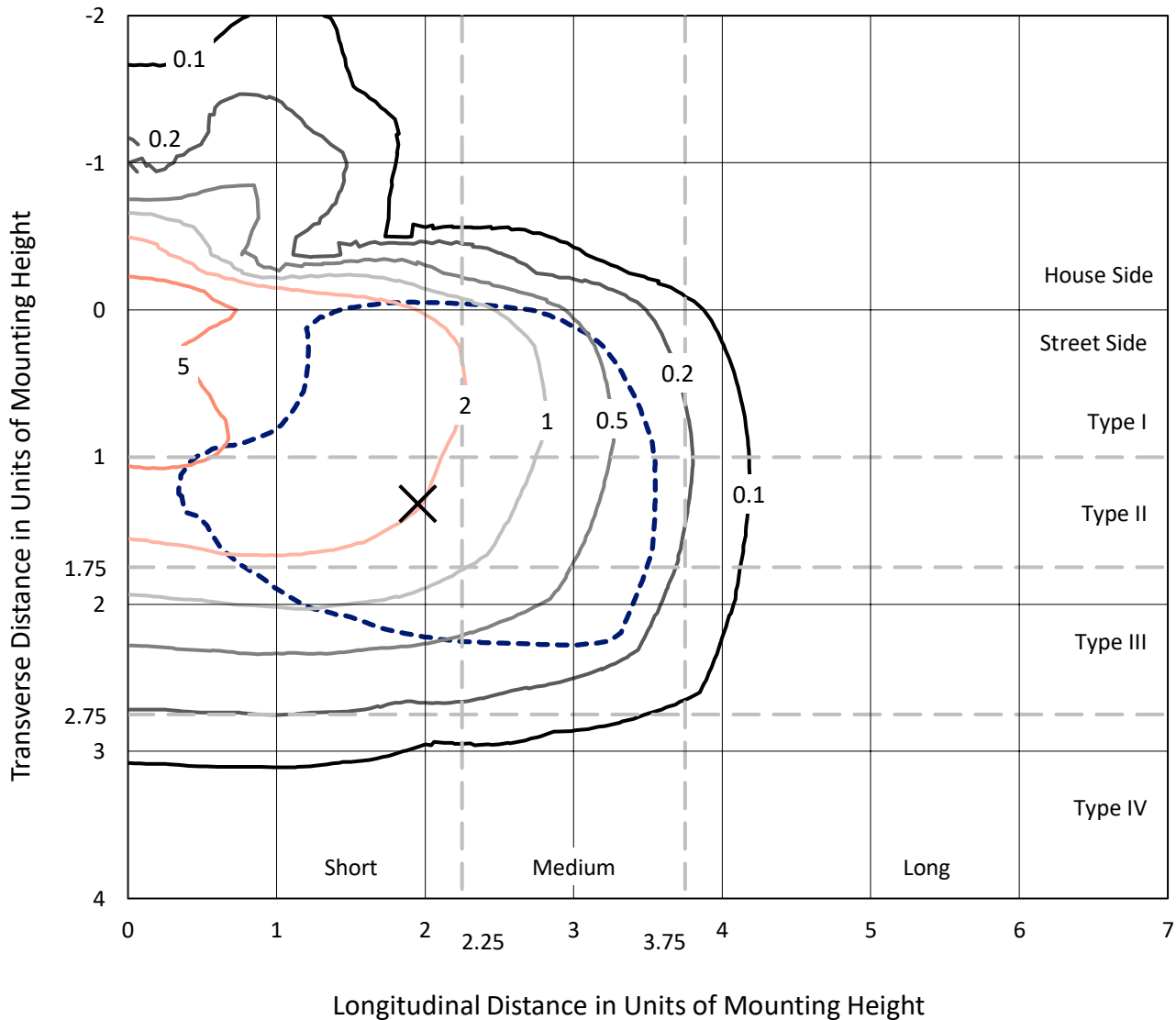
Lumens per Lamp: N/A  
Luminaire Lumens: 39544.9 lumens  
Efficiency: N/A  
Efficacy: 94.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 420.3  
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

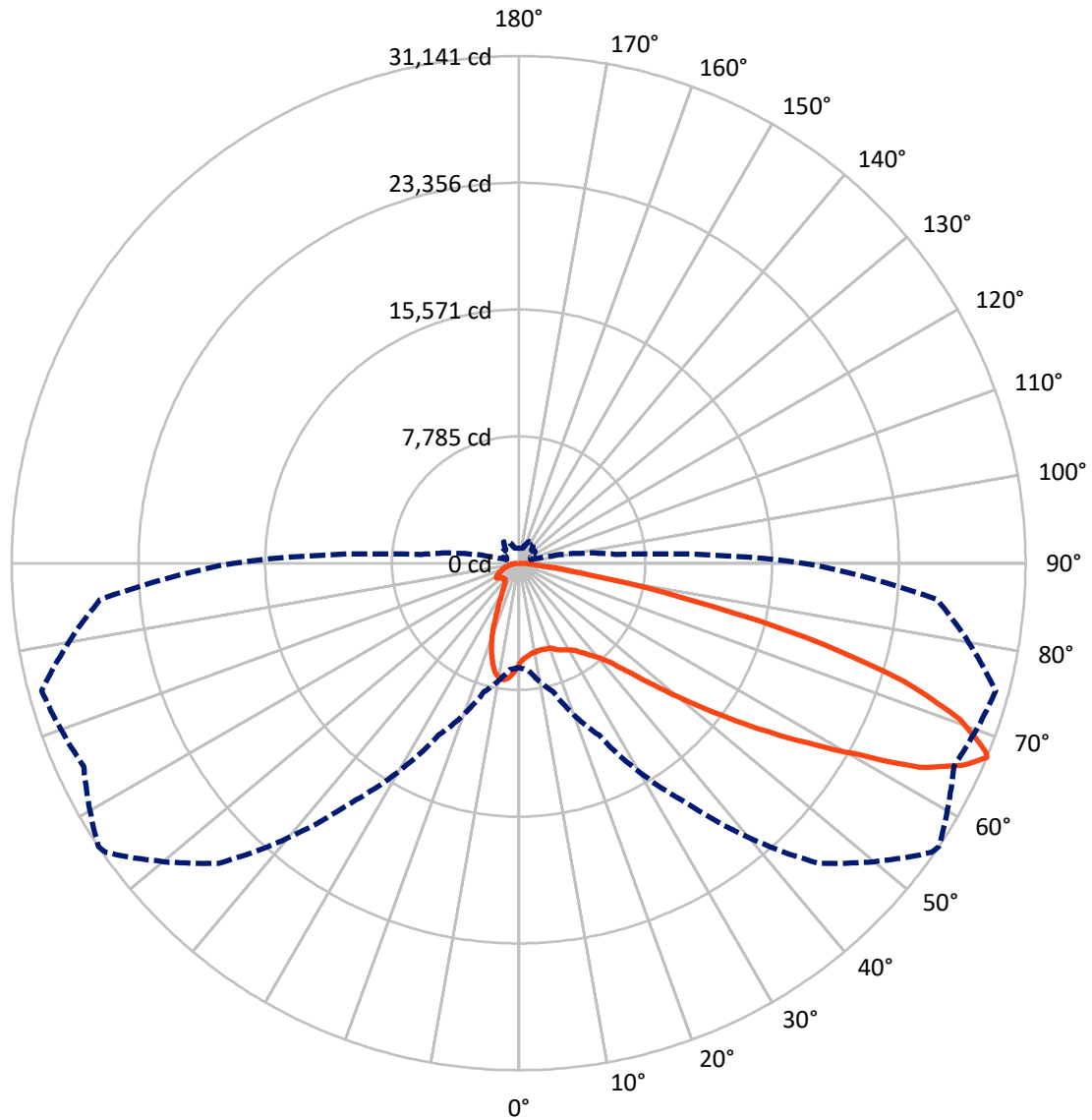
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.6 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
<b>House Side</b>	Lumens	6260.4	0.0	6260.4
	% Fixture	15.8	0.0	15.8
<b>Street Side</b>	Lumens	33284.6	0.0	33284.6
	% Fixture	84.2	0.0	84.2
<b>Total</b>	Lumens	39544.9	0.0	39544.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	592.8	1.5
10°-20°	1617.2	4.1
20°-30°	2536.2	6.4
30°-40°	3620.4	9.2
40°-50°	5464.3	13.8
50°-60°	8698.2	22.0
60°-70°	11119.9	28.1
70°-80°	5421.7	13.7
80°-90°	474.3	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°	39544.9	100.0
0°-180°	39544.9	100.0

**Coefficient of Utilization**

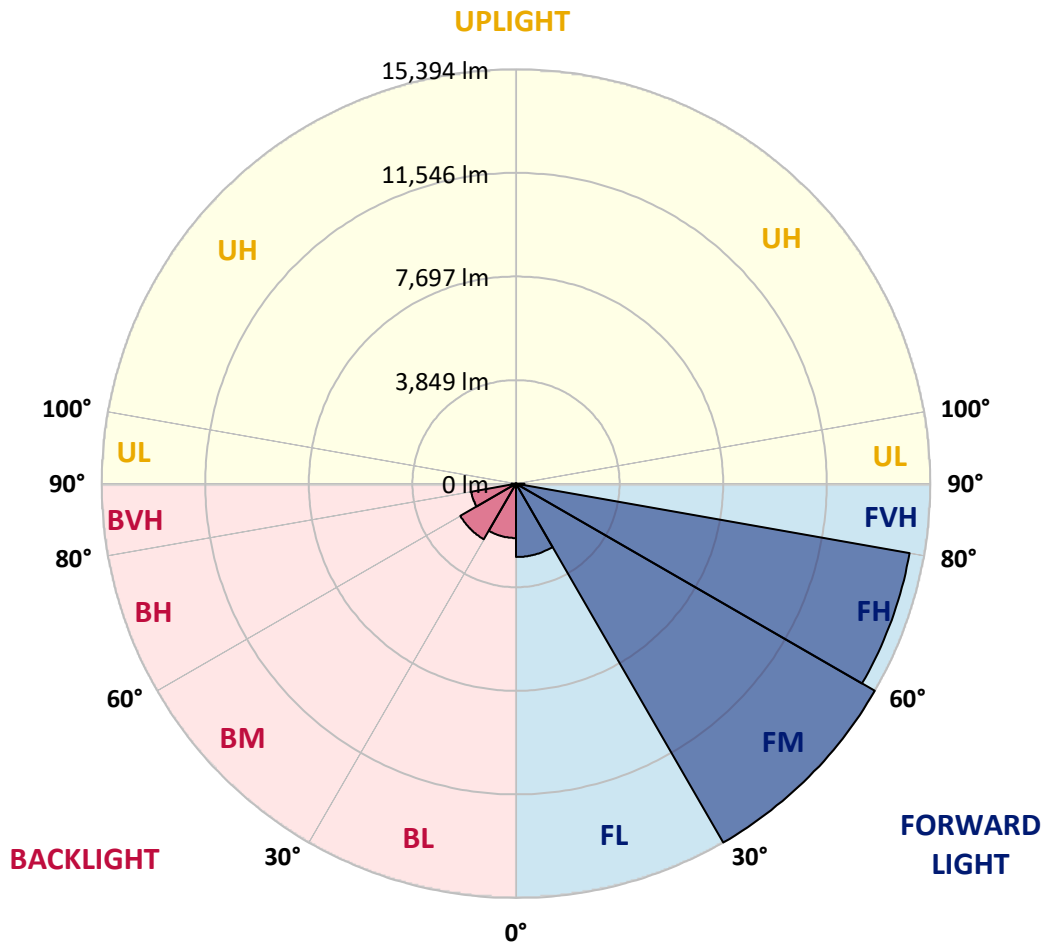


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2725.1	6.9			
FM (30°-60°)	15394.5	38.9			
FH (60°-80°)	14850.0	37.6			G5
FVH (80°-90°)	315.0	0.8			G3/500
BL (0°-30°)	2021.0	5.1	B3/2500		
BM (30°-60°)	2388.4	6.0	B2/2500		
BH (60°-80°)	1691.7	4.3	B3/2500		G3/2500
BVH (80°-90°)	159.3	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°	6153.1	6153.1	6153.1	6153.1	6153.1	6153.1	6153.1	6153.1	6153.1	6153.1
2.5°	5652.3	5629.1	5656.9	5629.1	5754.3	5828.5	5851.7	5884.1	6000.1	6111.4
5°	5415.8	5313.8	5425.1	5462.2	5471.5	5596.7	5726.5	5749.7	5810.0	5990.8
7.5°	5021.7	5137.6	5095.9	5207.2	5323.1	5448.3	5661.6	5601.3	5823.9	5995.4
10°	4938.2	4947.5	4993.9	5035.6	5137.6	5299.9	5596.7	5559.6	5786.8	6153.1
12.5°	5021.7	5021.7	5007.8	4975.3	5091.2	5248.9	5485.4	5503.9	5861.0	6199.5
15°	5313.8	5369.5	5221.1	5244.3	5197.9	5248.9	5457.6	5499.3	5888.8	6236.5
17.5°	6027.9	6009.3	5833.1	5587.4	5383.4	5350.9	5494.7	5541.0	5861.0	6343.2
20°	6723.4	6686.3	6380.3	6125.3	5721.9	5531.7	5554.9	5559.6	5907.3	6412.7
22.5°	7497.8	7595.1	7261.3	6742.0	6241.2	5768.2	5675.5	5749.7	6014.0	6449.8
25°	8712.6	8504.0	8216.5	7534.9	6728.1	6134.5	5874.9	5912.0	6116.0	6542.6
27.5°	9589.0	9505.5	9055.7	8504.0	7409.7	6422.0	5981.5	6051.1	6301.5	6537.9
30°	10432.9	10432.9	10159.3	9334.0	8128.4	6904.3	6208.7	6176.3	6213.4	6528.7
32.5°	11420.5	11286.1	10891.9	10344.8	9032.6	7344.8	6389.6	6398.8	6398.8	6700.2
35°	11939.9	12157.8	11893.5	11003.2	9723.4	8077.4	6825.4	6755.9	6704.9	6890.3
37.5°	12700.3	12830.1	12551.9	12028.0	10581.3	8670.9	7210.3	7154.6	6857.9	7038.7
40°	13159.3	13136.2	13126.9	12885.8	11717.3	9371.0	7776.0	7632.2	7233.5	7562.7
42.5°	13419.0	13372.6	13943.0	13794.6	12788.4	10400.4	8485.4	8406.6	7966.1	8494.7
45°	13711.1	14054.3	14522.6	14939.9	14035.7	11847.1	9686.4	9575.1	9180.9	9853.3
47.5°	13966.2	14388.1	14986.3	15431.4	15162.5	13419.0	11170.1	11198.0	10938.3	11629.2
50°	14392.7	14434.5	15245.9	16145.5	16354.1	14870.3	13164.0	13117.6	13001.7	13970.8
52.5°	14262.9	14388.1	15412.8	16562.8	16905.9	16405.1	15306.2	15445.3	15292.3	16511.8
55°	12148.5	12524.1	15310.8	17003.3	18213.5	18139.3	18060.5	17967.7	17958.5	19368.1
57.5°	11188.7	11494.7	13488.6	17490.2	19613.8	20161.0	20671.0	20773.0	20768.4	22470.1
60°	10558.1	10873.4	12751.3	17225.9	20805.5	22808.6	23787.0	23800.9	23773.1	25785.5
62.5°	9324.7	9630.7	11476.2	15779.2	21134.7	25252.2	27431.5	27612.4	26337.2	28641.7
65°	7840.9	8091.3	9718.8	13567.4	20258.3	26805.6	30171.9	29958.6	28498.0	30273.9
67°	6412.7	6579.7	8165.5	11647.7	17967.7	26059.0	30964.8	31141.0	29494.9	30343.5
67.5°	6004.7	6157.7	7655.4	10993.9	17096.0	25493.3	30992.6	30964.8	29513.5	30357.4
70°	4168.5	4233.4	5216.4	7562.7	12593.7	21538.1	28729.8	28794.8	28275.4	28711.3
72.5°	2763.6	2860.9	3486.9	4766.7	7423.6	15672.5	24014.2	24709.7	24380.5	23541.2
75°	1780.5	1836.2	2281.3	2837.7	3653.8	8925.9	17740.5	18204.2	17448.4	14559.7
77.5°	996.9	1057.2	1377.1	1724.9	1780.5	3714.1	9964.6	10539.5	8930.5	6185.5
80°	621.3	700.2	1038.7	1024.7	848.5	1363.2	4108.2	4400.4	3570.4	2128.3
82.5°	468.3	528.6	802.2	718.7	477.6	607.4	1539.4	1650.7	1307.6	820.7
85°	319.9	403.4	579.6	445.1	250.4	292.1	612.1	658.4	598.2	398.8
87.5°	115.9	171.6	301.4	222.6	111.3	88.1	199.4	222.6	213.3	180.8
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°
6153.1	0°	6153.1	6153.1	6153.1	6153.1	6153.1	6153.1	6153.1	6153.1	6153.1	6153.1
6208.7	2.5°	6296.8	6361.7	6394.2	6584.3	6663.1	6649.2	6667.8	6695.6	6723.4	6760.5
6287.6	5°	6347.8	6547.2	6653.9	6876.4	7024.8	6959.9	7043.4	7020.2	6987.7	6983.1
6431.3	7.5°	6514.8	6769.8	7089.7	7150.0	7214.9	7052.6	6913.5	6723.4	6677.0	6514.8
6551.9	10°	6811.5	7020.2	7409.7	7432.9	7145.4	6728.1	6417.4	6023.3	6018.6	5782.1
6737.3	12.5°	7094.4	7330.8	7646.1	7511.7	6825.4	6255.1	5749.7	5318.5	5137.6	5017.1
6848.6	15°	7270.6	7660.1	7827.0	7247.4	6264.4	5494.7	4840.9	4377.2	4191.7	4103.6
6987.7	17.5°	7432.9	7975.4	7901.2	6783.7	5573.5	4711.0	3932.0	3528.6	3477.6	3412.7
7210.3	20°	7655.4	8091.3	7636.9	6180.9	4789.9	3700.2	3204.1	3009.3	3055.7	3083.5
7233.5	22.5°	7864.1	8151.6	7303.0	5522.5	3783.7	2930.5	2684.7	2726.5	2796.0	2888.7
7289.1	25°	7956.8	8248.9	6853.2	4613.7	2879.5	2466.8	2411.2	2480.7	2596.6	2601.3
7367.9	27.5°	8017.1	8179.4	6310.7	3728.0	2276.7	2156.1	2239.6	2290.6	2304.5	2360.2
7534.9	30°	8123.7	8035.6	5624.5	2666.2	1910.4	1915.0	2021.7	2021.7	2021.7	2063.4
7701.8	32.5°	8309.2	7938.3	4822.3	1947.5	1646.1	1794.5	1766.6	1757.4	1738.8	1687.8
7915.1	35°	8425.1	7674.0	3806.8	1442.1	1479.2	1646.1	1636.8	1493.1	1251.9	1131.4
8457.6	37.5°	8666.2	7539.5	2800.6	1112.8	1381.8	1571.9	1520.9	1173.1	908.8	792.9
9129.9	40°	9185.6	7451.4	1938.2	973.7	1316.9	1534.8	1358.6	1001.6	695.5	491.5
10168.6	42.5°	9820.8	7456.0	1316.9	918.1	1321.5	1613.6	1307.6	857.8	491.5	394.1
11555.0	45°	10674.0	7386.5	904.2	918.1	1405.0	1743.5	1340.0	779.0	477.6	500.8
13293.8	47.5°	11592.1	7446.8	672.3	834.6	1418.9	1748.1	1224.1	765.1	459.0	579.6
15185.6	50°	12663.2	7507.0	556.4	769.7	1423.5	1692.4	1126.8	746.5	477.6	612.1
17355.7	52.5°	13766.8	7697.1	473.0	728.0	1479.2	1669.3	1126.8	774.4	477.6	533.2
20119.2	55°	15412.8	8184.0	681.6	908.8	1683.2	1822.3	1386.4	1085.0	667.7	686.3
22766.9	57.5°	17230.5	8684.8	760.4	955.2	1729.5	1641.4	1493.1	1196.3	704.8	709.4
24825.6	60°	18426.8	8703.3	755.8	932.0	1618.3	1418.9	1460.6	1261.2	718.7	607.4
26100.8	62.5°	18904.4	8137.6	788.3	932.0	1507.0	1326.1	1497.7	1358.6	741.9	760.4
26462.4	65°	18361.9	6969.2	760.4	834.6	1326.1	1187.0	1507.0	1377.1	811.4	765.1
25813.3	67°	17513.3	6004.7	774.4	792.9	1233.4	1126.8	1585.8	1446.7	941.3	918.1
25474.8	67.5°	17272.2	5749.7	769.7	769.7	1200.9	1108.2	1604.3	1446.7	959.8	950.6
22484.0	70°	15222.7	4660.0	788.3	760.4	1061.8	1052.6	1706.4	1525.5	1103.6	1112.8
16516.4	72.5°	11587.5	3533.3	783.6	760.4	922.7	1006.2	1720.3	1576.5	1200.9	1112.8
9250.5	75°	6584.3	2114.4	690.9	663.1	728.0	876.4	1609.0	1502.3	1168.5	996.9
3695.6	77.5°	2721.8	1089.7	635.2	598.2	602.8	714.1	1340.0	1400.3	1112.8	848.5
1233.4	80°	1015.5	653.8	510.1	477.6	463.7	524.0	955.2	1117.5	950.6	695.5
542.5	82.5°	528.6	408.0	347.8	347.8	315.3	333.9	514.7	741.9	718.7	477.6
217.9	85°	268.9	231.8	199.4	194.7	176.2	157.7	259.7	440.5	412.7	264.3
97.4	87.5°	143.7	129.8	83.5	78.8	64.9	41.7	46.4	88.1	143.7	115.9
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>
6153.1
6797.6
7024.8
6570.4
5772.9
4989.2
4085.1
3445.2
3051.0
2837.7
2647.6
2411.2
2109.8
1660.0
1187.0
788.3
477.6
384.9
510.1
644.5
709.4
547.1
723.3
686.3
626.0
769.7
751.2
904.2
932.0
1029.4
987.6
890.3
802.2
635.2
375.6
217.9
83.5
0.0

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