

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: P477829

Luminaire Tested: **IFLD-M-SA4E-750-U-T3R**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477829  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4E-750-U-T3R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R  
distribution lens  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

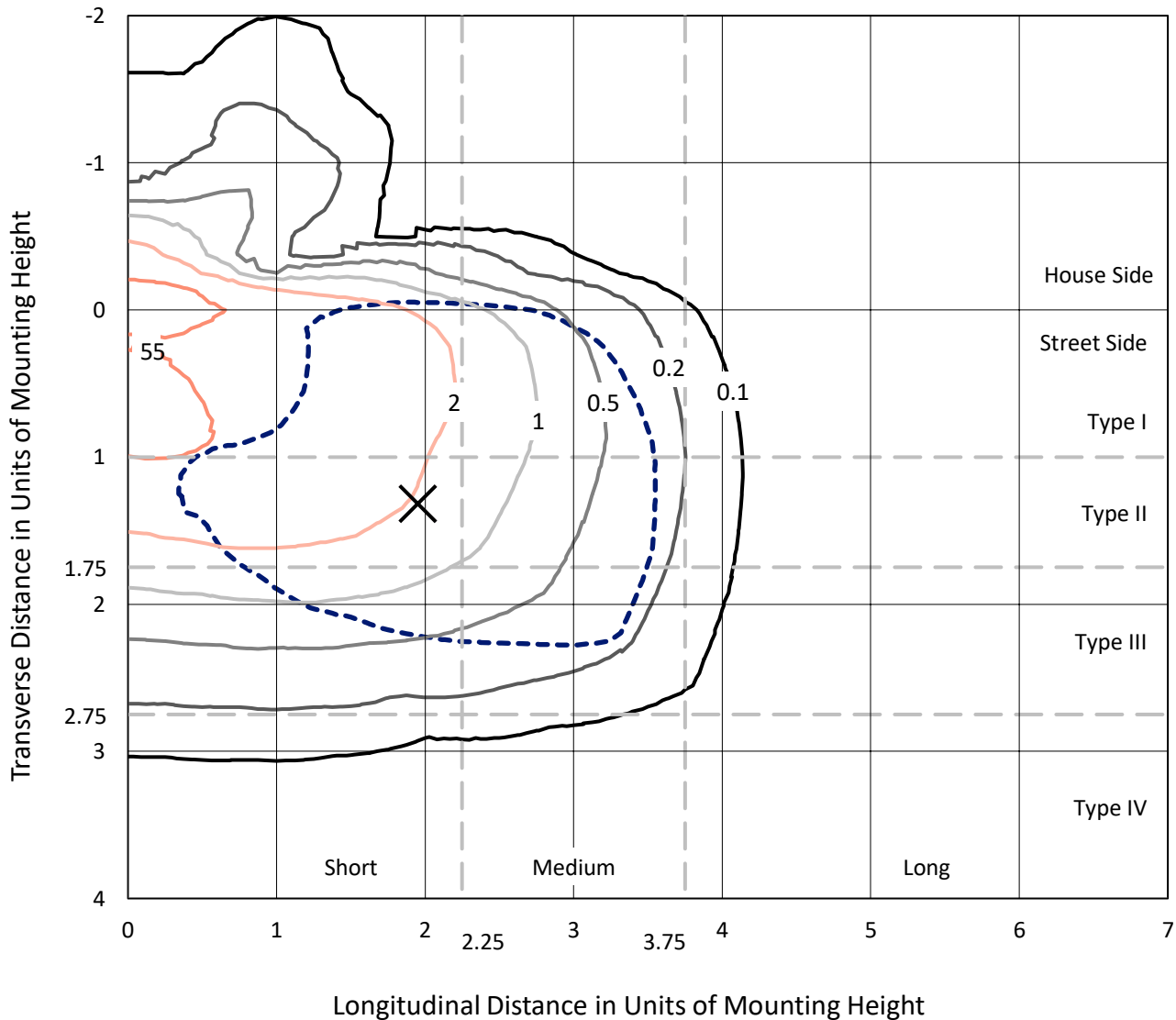
Lumens per Lamp: N/A  
Luminaire Lumens: 36378.1 lumens  
Efficiency: N/A  
Efficacy: 115.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 314.8  
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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### Iso-Footcandle Lines of Horizontal Illumination

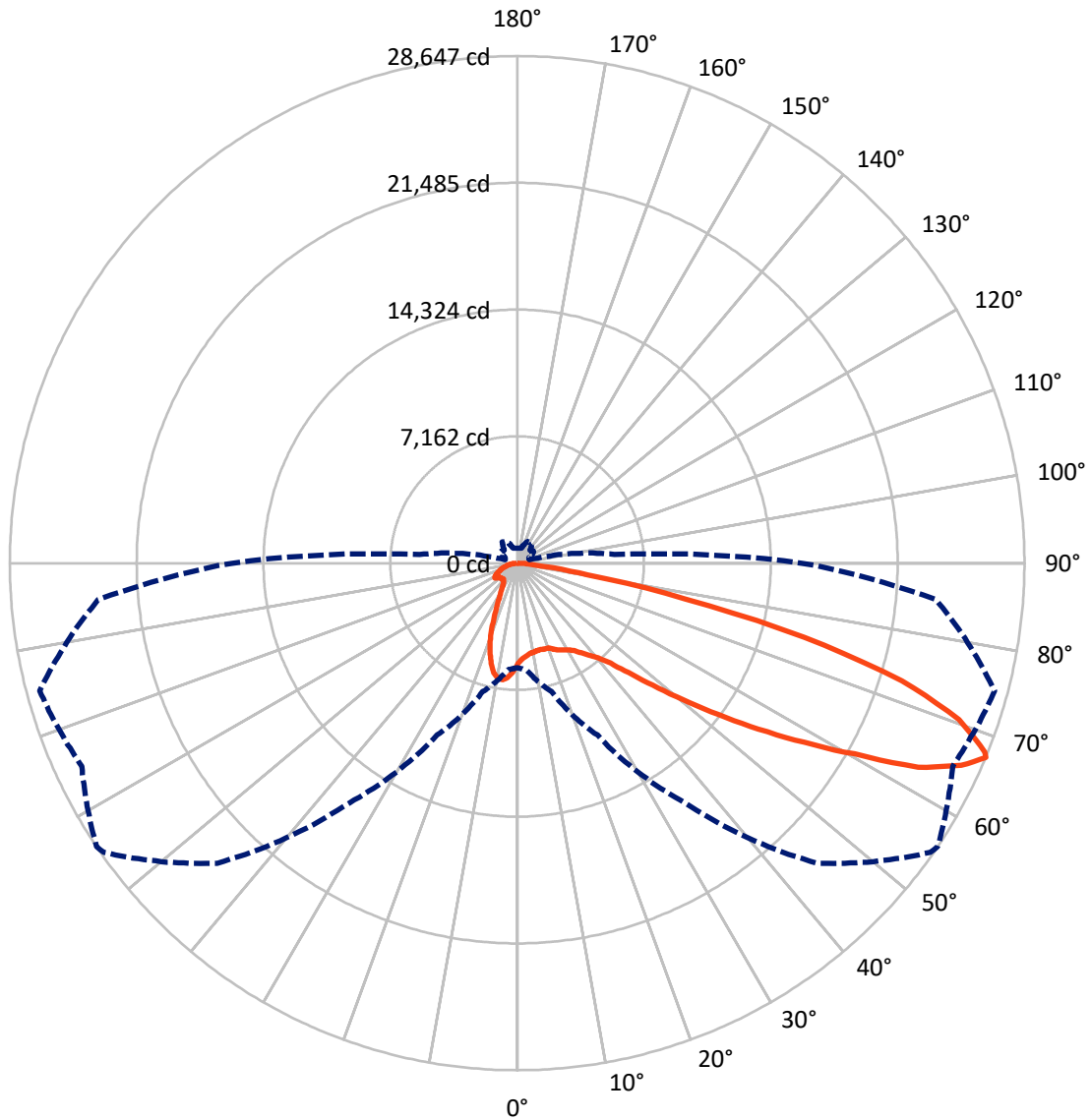
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7 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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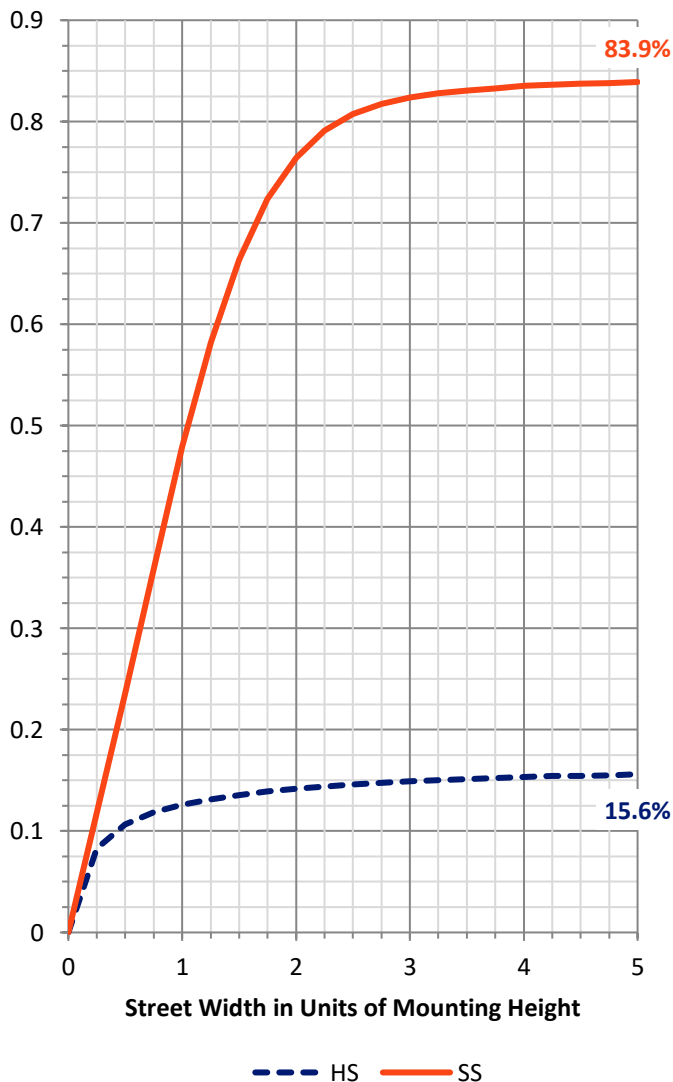
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5759.0	0.0	5759.0
	% Fixture	15.8	0.0	15.8
<b>Street Side</b>	Lumens	30619.0	0.0	30619.0
	% Fixture	84.2	0.0	84.2
<b>Total</b>	Lumens	36378.1	0.0	36378.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	545.3	1.5
10°-20°	1487.6	4.1
20°-30°	2333.1	6.4
30°-40°	3330.5	9.2
40°-50°	5026.7	13.8
50°-60°	8001.6	22.0
60°-70°	10229.4	28.1
70°-80°	4987.5	13.7
80°-90°	436.3	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°	36378.1	100.0
0°-180°	36378.1	100.0

**Coefficient of Utilization**

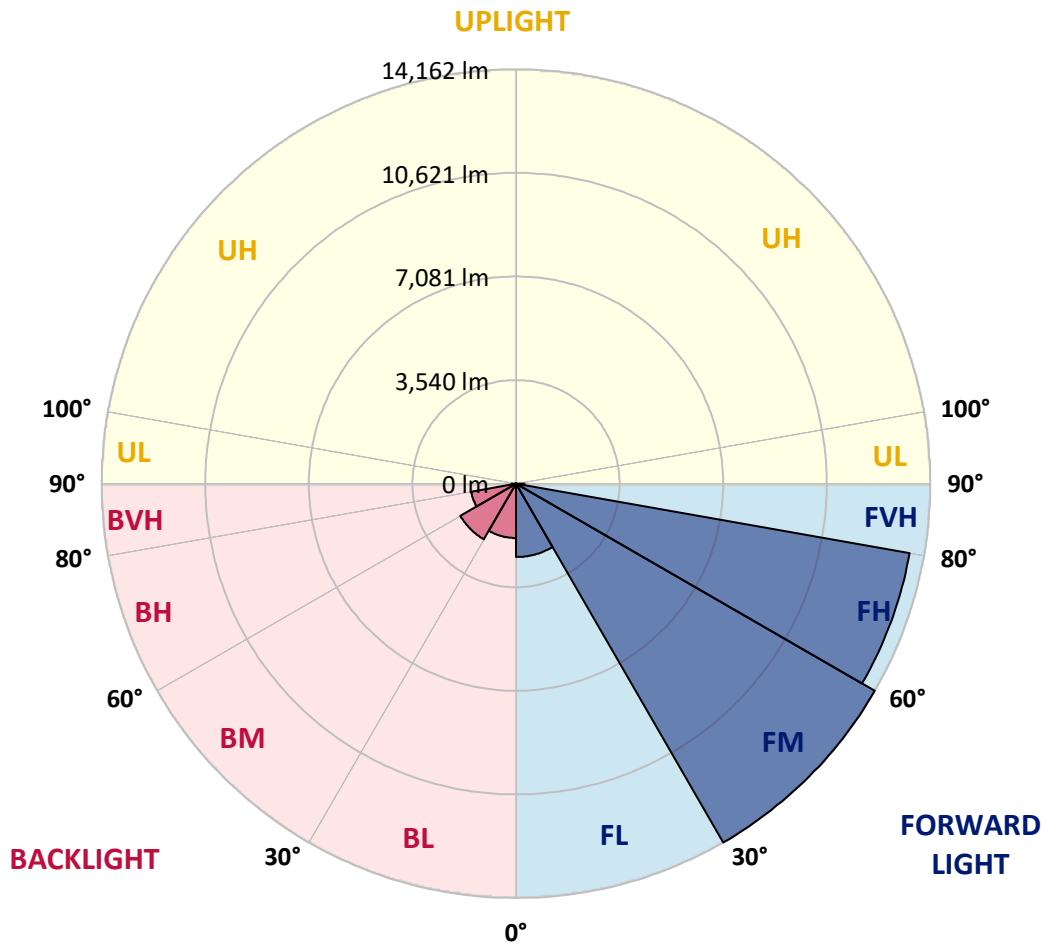


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2506.9	6.9			
FM (30°-60°)	14161.7	38.9			
FH (60°-80°)	13660.8	37.6			G5
FVH (80°-90°)	289.8	0.8			G3/500
BL (0°-30°)	1859.2	5.1	B3/2500		
BM (30°-60°)	2197.1	6.0	B2/2500		
BH (60°-80°)	1556.2	4.3	B3/2500		G3/2500
BVH (80°-90°)	146.5	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°	5660.3	5660.3	5660.3	5660.3	5660.3	5660.3	5660.3	5660.3	5660.3	5660.3
2.5°	5199.7	5178.3	5203.9	5178.3	5293.5	5361.7	5383.1	5412.9	5519.6	5621.9
5°	4982.1	4888.3	4990.6	5024.8	5033.3	5148.5	5267.9	5289.2	5344.7	5511.0
7.5°	4619.5	4726.2	4687.8	4790.2	4896.8	5012.0	5208.2	5152.7	5357.5	5515.3
10°	4542.8	4551.3	4594.0	4632.3	4726.2	4875.5	5148.5	5114.3	5323.4	5660.3
12.5°	4619.5	4619.5	4606.7	4576.9	4683.5	4828.6	5046.1	5063.2	5391.6	5703.0
15°	4888.3	4939.5	4803.0	4824.3	4781.6	4828.6	5020.5	5058.9	5417.2	5737.1
17.5°	5545.2	5528.1	5366.0	5139.9	4952.3	4922.4	5054.6	5097.3	5391.6	5835.2
20°	6185.0	6150.9	5869.3	5634.7	5263.6	5088.8	5110.1	5114.3	5434.3	5899.2
22.5°	6897.3	6986.9	6679.8	6202.0	5741.4	5306.3	5221.0	5289.2	5532.4	5933.3
25°	8014.9	7822.9	7558.5	6931.5	6189.3	5643.3	5404.4	5438.5	5626.2	6018.6
27.5°	8821.1	8744.3	8330.5	7822.9	6816.3	5907.7	5502.5	5566.5	5796.8	6014.4
30°	9597.4	9597.4	9345.7	8586.5	7477.4	6351.3	5711.5	5681.7	5715.8	6005.8
32.5°	10505.9	10382.2	10019.7	9516.4	8309.2	6756.6	5877.9	5886.4	5886.4	6163.7
35°	10983.7	11184.2	10941.0	10122.1	8944.8	7430.5	6278.8	6214.8	6167.9	6338.5
37.5°	11683.2	11802.7	11546.7	11064.7	9733.9	7976.5	6632.9	6581.7	6308.7	6475.0
40°	12105.5	12084.2	12075.7	11853.8	10778.9	8620.6	7153.3	7021.0	6654.2	6957.0
42.5°	12344.4	12301.7	12826.4	12689.9	11764.3	9567.5	7805.9	7733.4	7328.1	7814.4
45°	12613.1	12928.8	13359.6	13743.5	12911.7	10898.4	8910.6	8808.3	8445.7	9064.2
47.5°	12847.7	13235.9	13786.1	14195.6	13948.2	12344.4	10275.6	10301.2	10062.3	10697.9
50°	13240.1	13278.5	14025.0	14852.5	15044.4	13679.5	12109.8	12067.1	11960.5	12852.0
52.5°	13120.7	13235.9	14178.6	15236.4	15552.0	15091.4	14080.4	14208.4	14067.6	15189.5
55°	11175.6	11521.1	14084.7	15641.6	16754.9	16686.7	16614.2	16528.8	16520.3	17817.0
57.5°	10292.7	10574.2	12408.4	16089.5	18043.1	18546.4	19015.6	19109.5	19105.2	20670.7
60°	9712.6	10002.6	11730.1	15846.4	19139.3	20982.0	21882.1	21894.9	21869.3	23720.5
62.5°	8577.9	8859.5	10557.1	14515.5	19442.2	23230.0	25234.8	25401.1	24228.1	26348.0
65°	7213.0	7443.3	8940.5	12480.9	18636.0	24658.9	27755.7	27559.5	26215.8	27849.5
67°	5899.2	6052.8	7511.6	10715.0	16528.8	23972.2	28485.1	28647.2	27132.9	27913.5
67.5°	5523.8	5664.6	7042.4	10113.5	15726.9	23451.8	28510.7	28485.1	27150.0	27926.3
70°	3834.7	3894.4	4798.7	6957.0	11585.1	19813.3	26429.1	26488.8	26011.1	26412.0
72.5°	2542.2	2631.8	3207.7	4384.9	6829.1	14417.4	22091.1	22730.9	22428.0	21656.0
75°	1638.0	1689.1	2098.6	2610.5	3361.2	8211.1	16319.8	16746.4	16051.1	13393.7
77.5°	917.1	972.5	1266.9	1586.8	1638.0	3416.7	9166.6	9695.5	8215.4	5690.2
80°	571.6	644.1	955.5	942.7	780.6	1254.1	3779.2	4048.0	3284.4	1957.9
82.5°	430.8	486.3	737.9	661.2	439.3	558.8	1416.1	1518.5	1202.9	755.0
85°	294.3	371.1	533.2	409.5	230.3	268.7	563.0	605.7	550.3	366.8
87.5°	106.6	157.8	277.3	204.7	102.4	81.0	183.4	204.7	196.2	166.4
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°
5660.3	0°	5660.3	5660.3	5660.3	5660.3	5660.3	5660.3	5660.3	5660.3	5660.3	5660.3
5711.5	2.5°	5792.6	5852.3	5882.1	6057.0	6129.5	6116.7	6133.8	6159.4	6185.0	6219.1
5784.0	5°	5839.5	6022.9	6121.0	6325.7	6462.2	6402.5	6479.3	6458.0	6428.1	6423.9
5916.3	7.5°	5993.0	6227.6	6522.0	6577.4	6637.1	6487.8	6359.9	6185.0	6142.3	5993.0
6027.2	10°	6266.0	6458.0	6816.3	6837.6	6573.1	6189.3	5903.5	5540.9	5536.6	5319.1
6197.8	12.5°	6526.2	6743.8	7033.8	6910.1	6278.8	5754.2	5289.2	4892.5	4726.2	4615.3
6300.2	15°	6688.3	7046.6	7200.2	6667.0	5762.7	5054.6	4453.2	4026.6	3856.0	3775.0
6428.1	17.5°	6837.6	7336.7	7268.4	6240.4	5127.1	4333.8	3617.2	3246.1	3199.1	3139.4
6632.9	20°	7042.4	7443.3	7025.3	5685.9	4406.3	3403.9	2947.5	2768.3	2811.0	2836.6
6654.2	22.5°	7234.3	7498.8	6718.2	5080.2	3480.7	2695.8	2469.7	2508.1	2572.1	2657.4
6705.4	25°	7319.6	7588.3	6304.4	4244.2	2648.9	2269.3	2218.1	2282.0	2388.7	2393.0
6777.9	27.5°	7375.1	7524.4	5805.4	3429.5	2094.4	1983.5	2060.2	2107.2	2120.0	2171.1
6931.5	30°	7473.2	7392.1	5174.1	2452.7	1757.4	1761.7	1859.8	1859.8	1859.8	1898.2
7085.0	32.5°	7643.8	7302.6	4436.1	1791.5	1514.3	1650.8	1625.2	1616.6	1599.6	1552.6
7281.2	35°	7750.4	7059.4	3502.0	1326.6	1360.7	1514.3	1505.7	1373.5	1151.7	1040.8
7780.3	37.5°	7972.2	6935.7	2576.4	1023.7	1271.1	1446.0	1399.1	1079.2	836.0	729.4
8398.8	40°	8450.0	6854.7	1783.0	895.8	1211.4	1411.9	1249.8	921.3	639.8	452.1
9354.3	42.5°	9034.3	6858.9	1211.4	844.6	1215.7	1484.4	1202.9	789.1	452.1	362.6
10629.6	45°	9819.2	6795.0	831.8	844.6	1292.4	1603.8	1232.7	716.6	439.3	460.7
12229.2	47.5°	10663.8	6850.4	618.5	767.8	1305.2	1608.1	1126.1	703.8	422.3	533.2
13969.5	50°	11649.1	6905.9	511.9	708.1	1309.5	1556.9	1036.5	686.7	439.3	563.0
15965.8	52.5°	12664.3	7080.7	435.1	669.7	1360.7	1535.6	1036.5	712.3	439.3	490.5
18508.0	55°	14178.6	7528.6	627.0	836.0	1548.4	1676.3	1275.4	998.1	614.2	631.3
20943.6	57.5°	15850.6	7989.3	699.5	878.7	1591.0	1510.0	1373.5	1100.5	648.4	652.6
22837.5	60°	16951.1	8006.4	695.3	857.4	1488.7	1305.2	1343.6	1160.2	661.2	558.8
24010.5	62.5°	17390.5	7486.0	725.1	857.4	1386.3	1219.9	1377.8	1249.8	682.5	699.5
24343.3	65°	16891.4	6411.1	699.5	767.8	1219.9	1092.0	1386.3	1266.9	746.5	703.8
23746.1	67°	16110.8	5523.8	712.3	729.4	1134.6	1036.5	1458.8	1330.8	865.9	844.6
23434.7	67.5°	15889.0	5289.2	708.1	708.1	1104.8	1019.5	1475.9	1330.8	883.0	874.4
20683.5	70°	14003.7	4286.8	725.1	699.5	976.8	968.3	1569.7	1403.4	1015.2	1023.7
15193.7	72.5°	10659.5	3250.3	720.9	699.5	848.8	925.6	1582.5	1450.3	1104.8	1023.7
8509.7	75°	6057.0	1945.1	635.6	610.0	669.7	806.2	1480.1	1382.0	1074.9	917.1
3399.6	77.5°	2503.9	1002.4	584.4	550.3	554.5	656.9	1232.7	1288.2	1023.7	780.6
1134.6	80°	934.1	601.4	469.2	439.3	426.6	482.0	878.7	1028.0	874.4	639.8
499.1	82.5°	486.3	375.4	319.9	319.9	290.1	307.1	473.5	682.5	661.2	439.3
200.5	85°	247.4	213.3	183.4	179.2	162.1	145.0	238.9	405.2	379.6	243.1
89.6	87.5°	132.2	119.4	76.8	72.5	59.7	38.4	42.7	81.0	132.2	106.6
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>
5660.3
6253.2
6462.2
6044.2
5310.6
4589.7
3757.9
3169.3
2806.7
2610.5
2435.6
2218.1
1940.8
1527.1
1092.0
725.1
439.3
354.0
469.2
592.9
652.6
503.3
665.4
631.3
575.8
708.1
691.0
<b>831.8</b>
857.4
946.9
908.6
819.0
737.9
584.4
345.5
200.5
76.8
0.0

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