

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: P477643

Luminaire Tested: **IFLD-L-SA8D-722-U-T3R**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P477643  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8D-722-U-T3R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens  
Light Source: (128) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

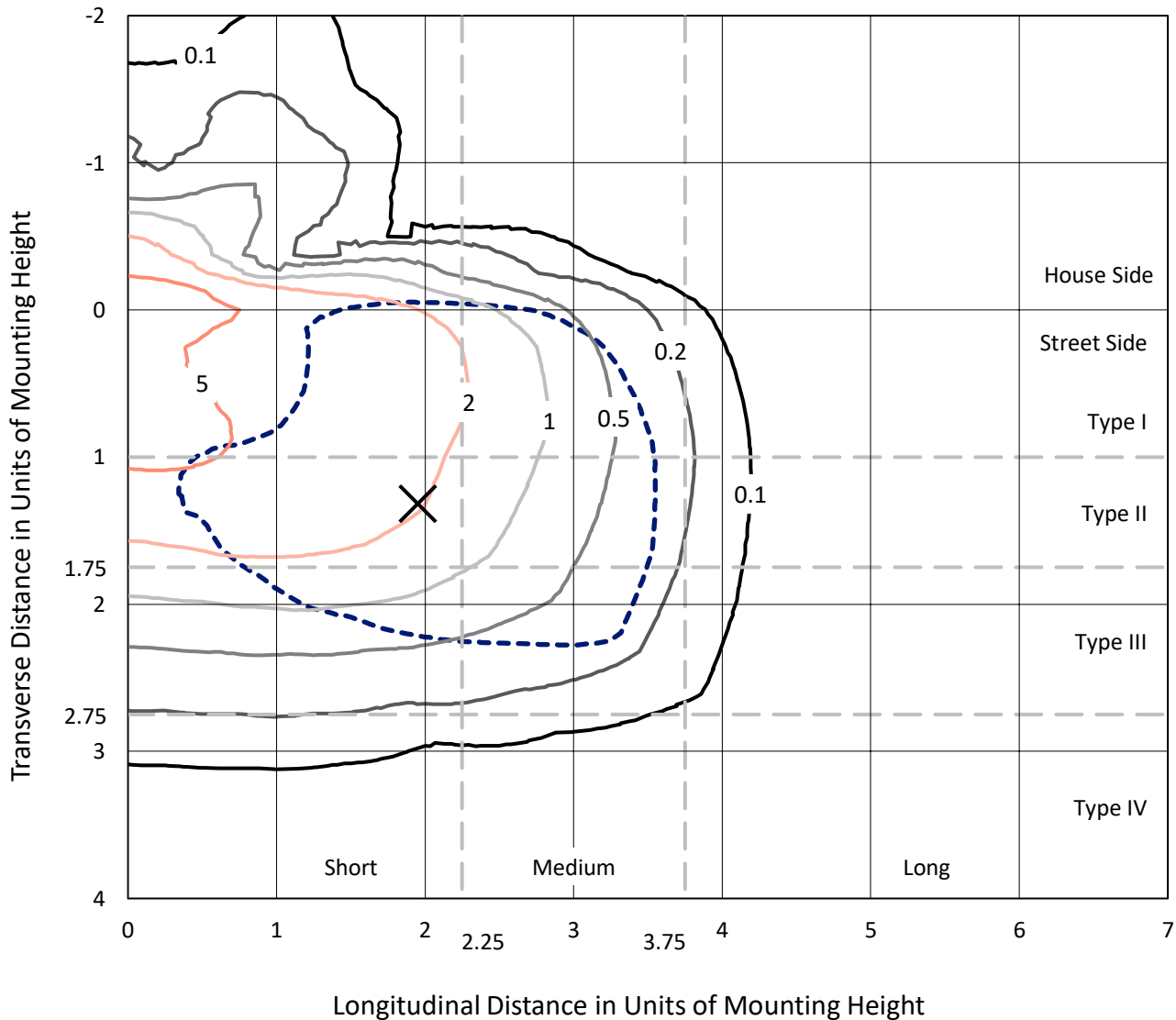
Lumens per Lamp: N/A  
Luminaire Lumens: 40336.8 lumens  
Efficiency: N/A  
Efficacy: 82.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 488.3  
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

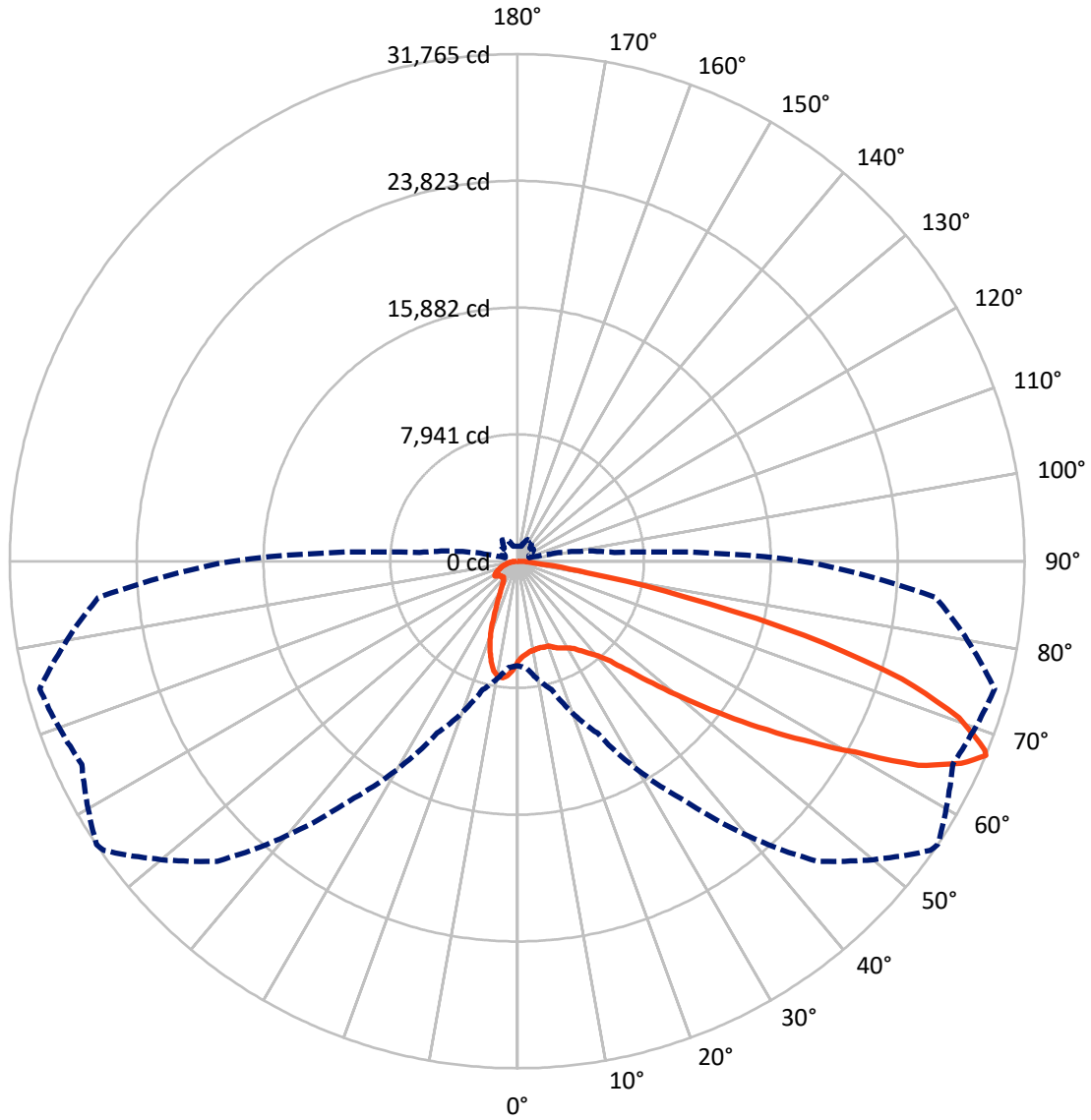
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.8 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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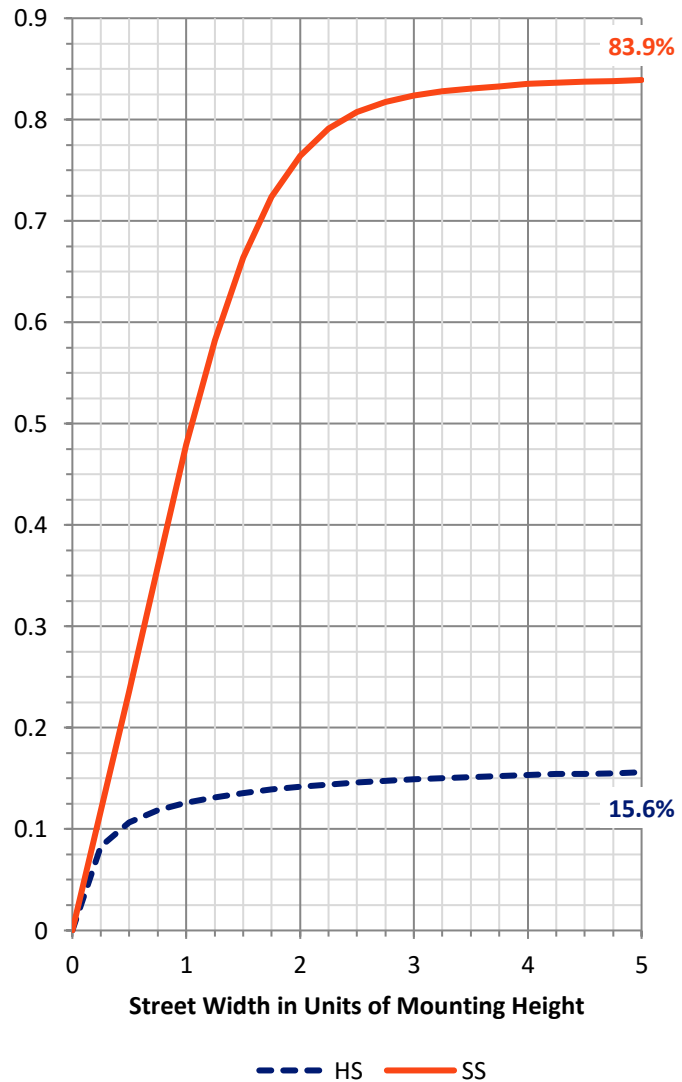
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6385.7	0.0	6385.7
	% Fixture	15.8	0.0	15.8
<b>Street Side</b>	Lumens	33951.0	0.0	33951.0
	% Fixture	84.2	0.0	84.2
<b>Total</b>	Lumens	40336.8	0.0	40336.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	604.6	1.5
10°-20°	1649.5	4.1
20°-30°	2587.0	6.4
30°-40°	3692.9	9.2
40°-50°	5573.7	13.8
50°-60°	8872.4	22.0
60°-70°	11342.6	28.1
70°-80°	5530.3	13.7
80°-90°	483.8	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°	40336.8	100.0
0°-180°	40336.8	100.0

**Coefficient of Utilization**

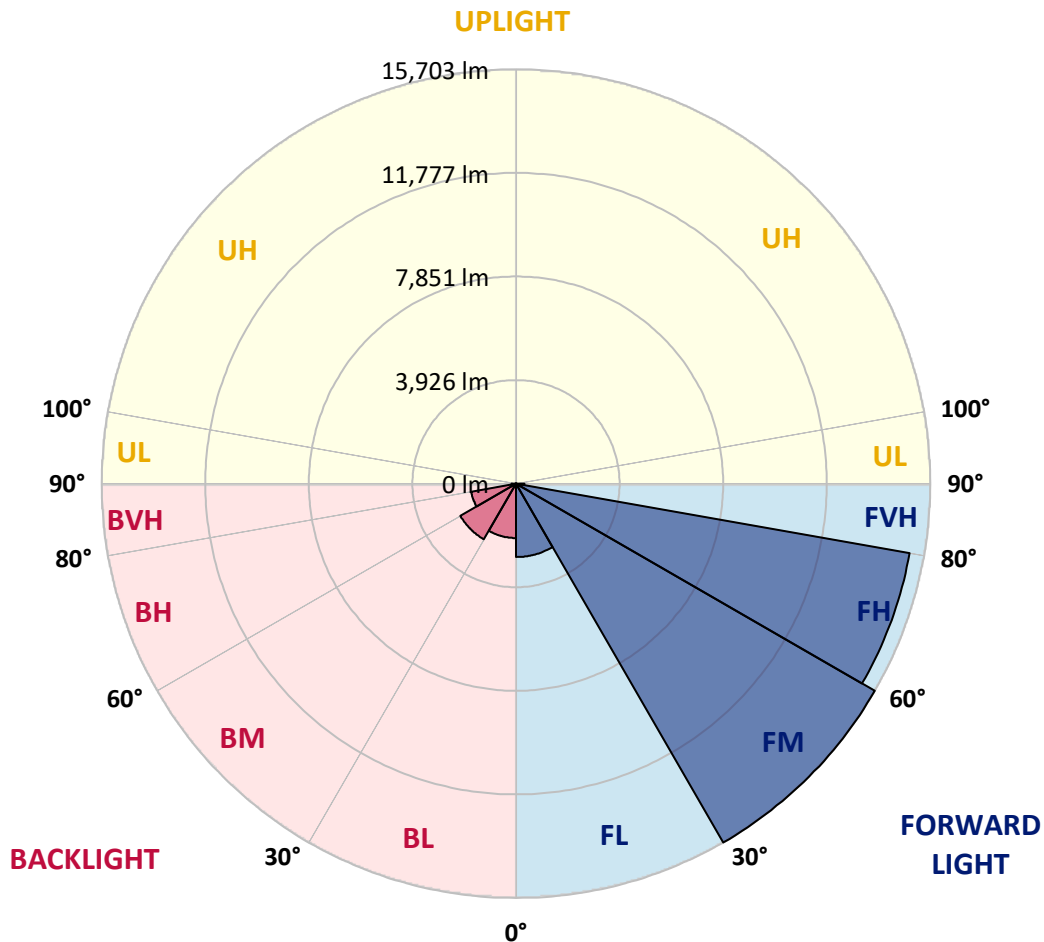


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2779.7	6.9			
FM (30°-60°)	15702.7	38.9			
FH (60°-80°)	15147.3	37.6			G5
FVH (80°-90°)	321.3	0.8			G3/500
BL (0°-30°)	2061.5	5.1	B3/2500		
BM (30°-60°)	2436.2	6.0	B2/2500		
BH (60°-80°)	1725.5	4.3	B3/2500		G3/2500
BVH (80°-90°)	162.5	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°	6276.3	6276.3	6276.3	6276.3	6276.3	6276.3	6276.3	6276.3	6276.3	6276.3
2.5°	5765.5	5741.8	5770.2	5741.8	5869.5	5945.2	5968.9	6002.0	6120.2	6233.7
5°	5524.3	5420.2	5533.7	5571.6	5581.0	5708.7	5841.2	5864.8	5926.3	6110.8
7.5°	5122.2	5240.5	5197.9	5311.4	5429.7	5557.4	5774.9	5713.5	5940.5	6115.5
10°	5037.1	5046.6	5093.9	5136.4	5240.5	5406.0	5708.7	5670.9	5902.6	6276.3
12.5°	5122.2	5122.2	5108.1	5075.0	5193.2	5354.0	5595.2	5614.1	5978.3	6323.6
15°	5420.2	5477.0	5325.6	5349.3	5302.0	5354.0	5566.8	5609.4	6006.7	6361.4
17.5°	6148.6	6129.7	5949.9	5699.3	5491.2	5458.1	5604.7	5652.0	5978.3	6470.2
20°	6858.0	6820.2	6508.0	6247.9	5836.4	5642.5	5666.2	5670.9	6025.6	6541.2
22.5°	7647.9	7747.2	7406.7	6877.0	6366.2	5883.7	5789.1	5864.8	6134.4	6579.0
25°	8887.1	8674.2	8381.0	7685.7	6862.8	6257.4	5992.5	6030.3	6238.5	6673.6
27.5°	9781.0	9695.9	9237.1	8674.2	7558.0	6550.6	6101.3	6172.2	6427.6	6668.9
30°	10641.8	10641.8	10362.7	9520.9	8291.1	7042.5	6333.0	6299.9	6337.8	6659.4
32.5°	11649.2	11512.1	11110.0	10551.9	9213.4	7491.8	6517.5	6527.0	6527.0	6834.4
35°	12178.9	12401.2	12131.6	11223.5	9918.2	8239.1	6962.1	6891.2	6839.1	7028.3
37.5°	12954.6	13087.0	12803.3	12268.8	10793.1	8844.5	7354.7	7297.9	6995.2	7179.7
40°	13422.8	13399.2	13389.7	13143.8	11951.9	9558.7	7931.7	7785.1	7378.3	7714.1
42.5°	13687.7	13640.4	14222.2	14070.8	13044.5	10608.7	8655.3	8574.9	8125.6	8664.8
45°	13985.7	14335.7	14813.4	15239.0	14316.8	12084.3	9880.3	9766.8	9364.8	10050.6
47.5°	14245.8	14676.2	15286.3	15740.4	15466.1	13687.7	11393.8	11422.2	11157.3	11862.1
50°	14680.9	14723.5	15551.2	16468.8	16681.6	15168.1	13427.6	13380.3	13262.0	14250.5
52.5°	14548.5	14676.2	15721.5	16894.4	17244.4	16733.6	15612.7	15754.6	15598.5	16842.4
55°	12391.8	12774.9	15617.4	17343.8	18578.2	18502.5	18422.1	18327.5	18318.1	19755.9
57.5°	11412.7	11724.9	13758.7	17840.4	20006.6	20564.7	21084.9	21189.0	21184.3	22920.1
60°	10769.5	11091.1	13006.6	17570.8	21222.1	23265.3	24263.3	24277.5	24249.1	26301.8
62.5°	9511.4	9823.6	11706.0	16095.1	21557.9	25757.9	27980.8	28165.3	26864.6	29215.3
65°	7997.9	8253.3	9913.4	13839.1	20664.0	27342.3	30776.1	30558.5	29068.7	30880.1
67°	6541.2	6711.4	8329.0	11881.0	18327.5	26580.8	31584.8	31764.6	30085.5	30951.1
67.5°	6124.9	6281.0	7808.7	11214.1	17438.4	26003.8	31613.2	31584.8	30104.5	30965.3
70°	4252.0	4318.2	5320.9	7714.1	12845.8	21969.4	29305.1	29371.4	28841.6	29286.2
72.5°	2818.9	2918.2	3556.7	4862.1	7572.2	15986.3	24495.0	25204.5	24868.7	24012.6
75°	1816.2	1873.0	2327.0	2894.6	3727.0	9104.6	18095.8	18568.7	17797.8	14851.2
77.5°	1016.9	1078.4	1404.7	1759.4	1816.2	3788.5	10164.1	10750.6	9109.4	6309.4
80°	633.8	714.2	1059.4	1045.3	865.5	1390.5	4190.5	4488.5	3641.9	2170.9
82.5°	477.7	539.2	818.2	733.1	487.2	619.6	1570.3	1683.8	1333.8	837.2
85°	326.3	411.5	591.2	454.0	255.4	298.0	624.3	671.6	610.1	406.8
87.5°	118.2	175.0	307.4	227.0	113.5	89.9	203.4	227.0	217.6	184.5
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°
6276.3	0°	6276.3	6276.3	6276.3	6276.3	6276.3	6276.3	6276.3	6276.3	6276.3	6276.3
6333.0	2.5°	6422.9	6489.1	6522.2	6716.2	6796.6	6782.4	6801.3	6829.7	6858.0	6895.9
6413.5	5°	6474.9	6678.3	6787.1	7014.1	7165.5	7099.3	7184.4	7160.7	7127.6	7122.9
6560.1	7.5°	6645.2	6905.3	7231.7	7293.2	7359.4	7193.9	7052.0	6858.0	6810.7	6645.2
6683.0	10°	6947.9	7160.7	7558.0	7581.7	7288.4	6862.8	6545.9	6143.9	6139.1	5897.9
6872.2	12.5°	7236.4	7477.6	7799.3	7662.1	6962.1	6380.3	5864.8	5424.9	5240.5	5117.5
6985.7	15°	7416.1	7813.4	7983.7	7392.5	6389.8	5604.7	4937.8	4464.8	4275.6	4185.8
7127.6	17.5°	7581.7	8135.1	8059.4	6919.5	5685.1	4805.4	4010.8	3599.3	3547.3	3481.0
7354.7	20°	7808.7	8253.3	7789.8	6304.7	4885.8	3774.3	3268.2	3069.6	3116.9	3145.2
7378.3	22.5°	8021.5	8314.8	7449.3	5633.1	3859.4	2989.2	2738.5	2781.1	2852.0	2946.6
7435.1	25°	8116.1	8414.1	6990.5	4706.0	2937.1	2516.2	2459.4	2530.4	2648.6	2653.4
7515.5	27.5°	8177.6	8343.2	6437.1	3802.7	2322.3	2199.3	2284.4	2336.5	2350.7	2407.4
7685.7	30°	8286.4	8196.5	5737.1	2719.6	1948.6	1953.4	2062.1	2062.1	2062.1	2104.7
7856.0	32.5°	8475.6	8097.2	4918.9	1986.5	1679.0	1830.4	1802.0	1792.6	1773.6	1721.6
8073.6	35°	8593.8	7827.6	3883.1	1470.9	1508.8	1679.0	1669.6	1523.0	1277.0	1154.0
8626.9	37.5°	8839.8	7690.5	2856.7	1135.1	1409.4	1603.4	1551.3	1196.6	927.0	808.8
9312.8	40°	9369.5	7600.6	1977.0	993.2	1343.2	1565.5	1385.8	1021.6	709.5	501.3
10372.2	42.5°	10017.5	7605.3	1343.2	936.5	1348.0	1645.9	1333.8	875.0	501.3	402.0
11786.4	45°	10887.7	7534.4	922.3	936.5	1433.1	1778.4	1366.9	794.6	487.2	510.8
13560.0	47.5°	11824.2	7595.9	685.8	851.3	1447.3	1783.1	1248.6	780.4	468.2	591.2
15489.7	50°	12916.8	7657.4	567.6	785.1	1452.0	1726.3	1149.3	761.5	487.2	624.3
17703.2	52.5°	14042.4	7851.3	482.4	742.6	1508.8	1702.7	1149.3	789.9	487.2	543.9
20522.1	55°	15721.5	8347.9	695.3	927.0	1716.9	1858.8	1414.2	1106.7	681.1	700.0
23222.8	57.5°	17575.5	8858.7	775.7	974.3	1764.2	1674.3	1523.0	1220.3	718.9	723.6
25322.7	60°	18795.8	8877.6	770.9	950.7	1650.7	1447.3	1489.9	1286.5	733.1	619.6
26623.4	62.5°	19282.9	8300.6	804.0	950.7	1537.1	1352.7	1527.7	1385.8	756.7	775.7
26992.3	65°	18729.6	7108.7	775.7	851.3	1352.7	1210.8	1537.1	1404.7	827.7	780.4
26330.2	67°	17864.0	6124.9	789.9	808.8	1258.1	1149.3	1617.6	1475.7	960.1	936.5
25984.9	67.5°	17618.1	5864.8	785.1	785.1	1225.0	1130.4	1636.5	1475.7	979.0	969.6
22934.2	70°	15527.6	4753.3	804.0	775.7	1083.1	1073.6	1740.5	1556.1	1125.7	1135.1
16847.1	72.5°	11819.5	3604.0	799.3	775.7	941.2	1026.3	1754.7	1608.1	1225.0	1135.1
9435.7	75°	6716.2	2156.7	704.7	676.3	742.6	893.9	1641.2	1532.4	1191.9	1016.9
3769.6	77.5°	2776.3	1111.5	648.0	610.1	614.9	728.4	1366.9	1428.4	1135.1	865.5
1258.1	80°	1035.8	666.9	520.3	487.2	473.0	534.5	974.3	1139.9	969.6	709.5
553.4	82.5°	539.2	416.2	354.7	354.7	321.6	340.5	525.0	756.7	733.1	487.2
222.3	85°	274.3	236.5	203.4	198.6	179.7	160.8	264.9	449.3	420.9	269.6
99.3	87.5°	146.6	132.4	85.1	80.4	66.2	42.6	47.3	89.9	146.6	118.2
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>
6276.3
6933.7
7165.5
6702.0
5888.5
5089.1
4166.9
3514.2
3112.1
2894.6
2700.7
2459.4
2152.0
1693.2
1210.8
804.0
487.2
392.6
520.3
657.4
723.6
558.1
737.8
700.0
638.5
785.1
766.2
922.3
950.7
1050.0
1007.4
908.1
818.2
648.0
383.1
222.3
85.1
0.0

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