

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: P477642

Luminaire Tested: **IFLD-L-SA8C-722-U-T3R**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477642  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8C-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**

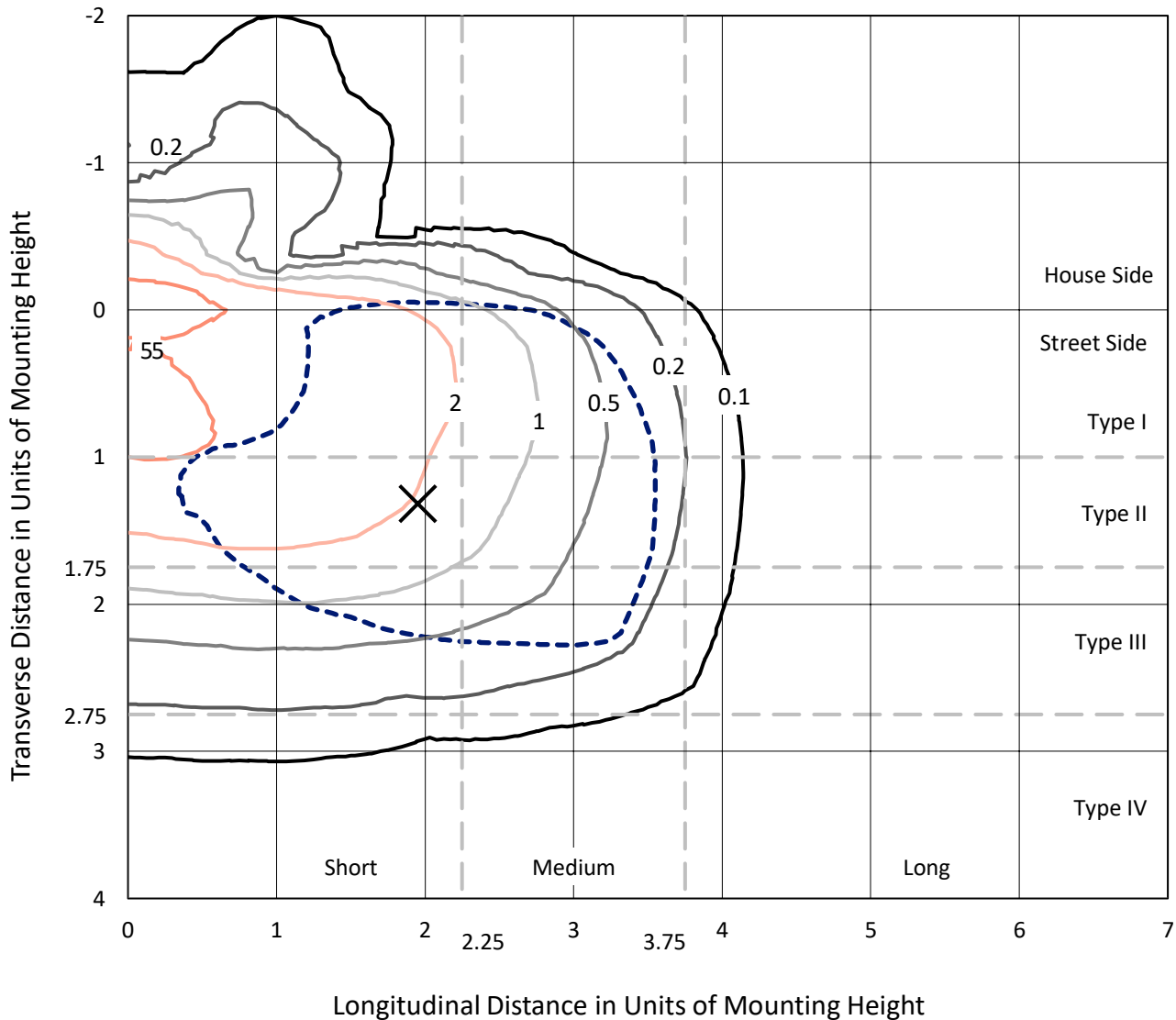
Lumens per Lamp: N/A  
Luminaire Lumens: 36658.4 lumens  
Efficiency: N/A  
Efficacy: 87.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 420.3  
Input Voltage (V): 120  
Input Current (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

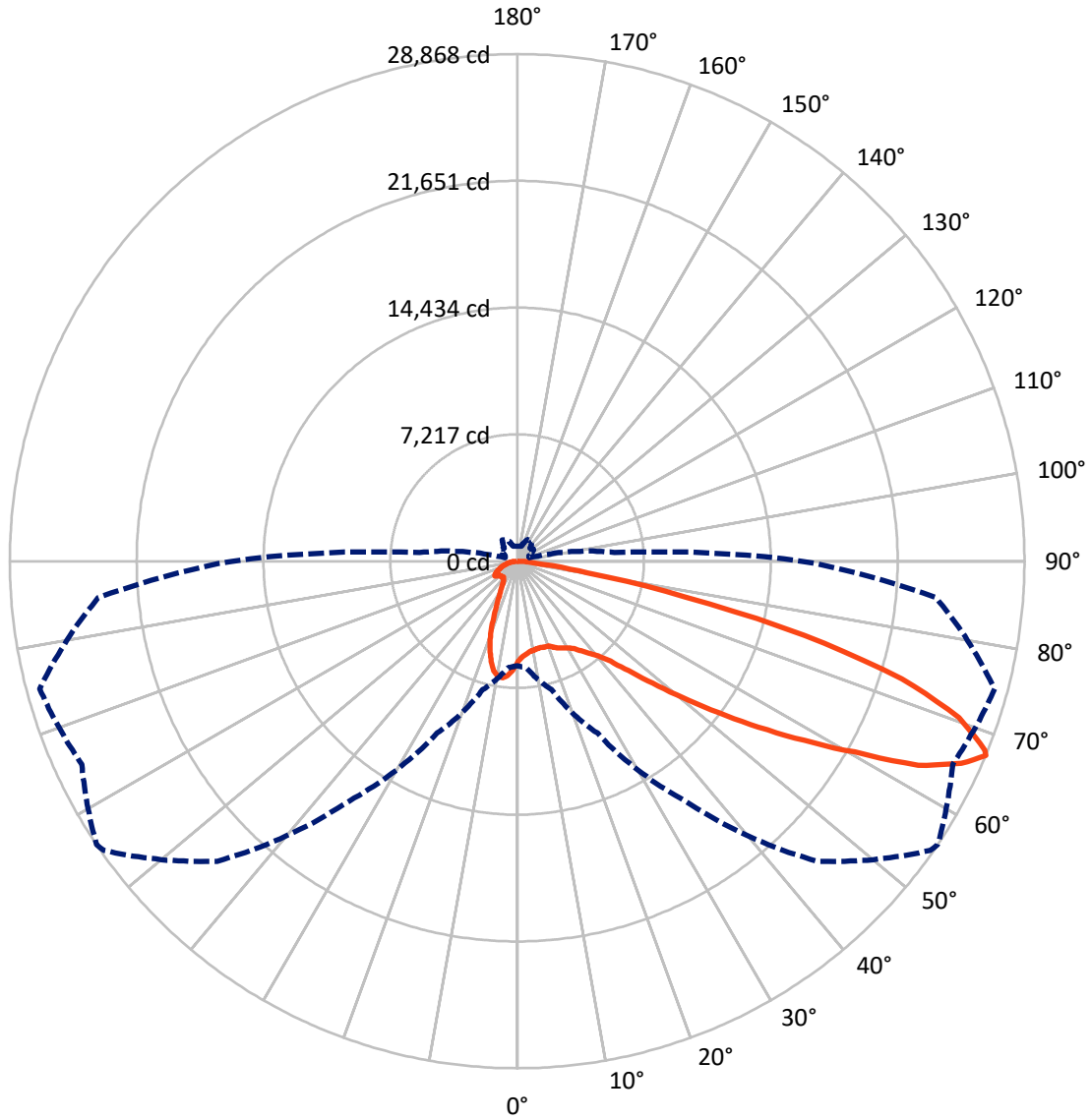
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.1 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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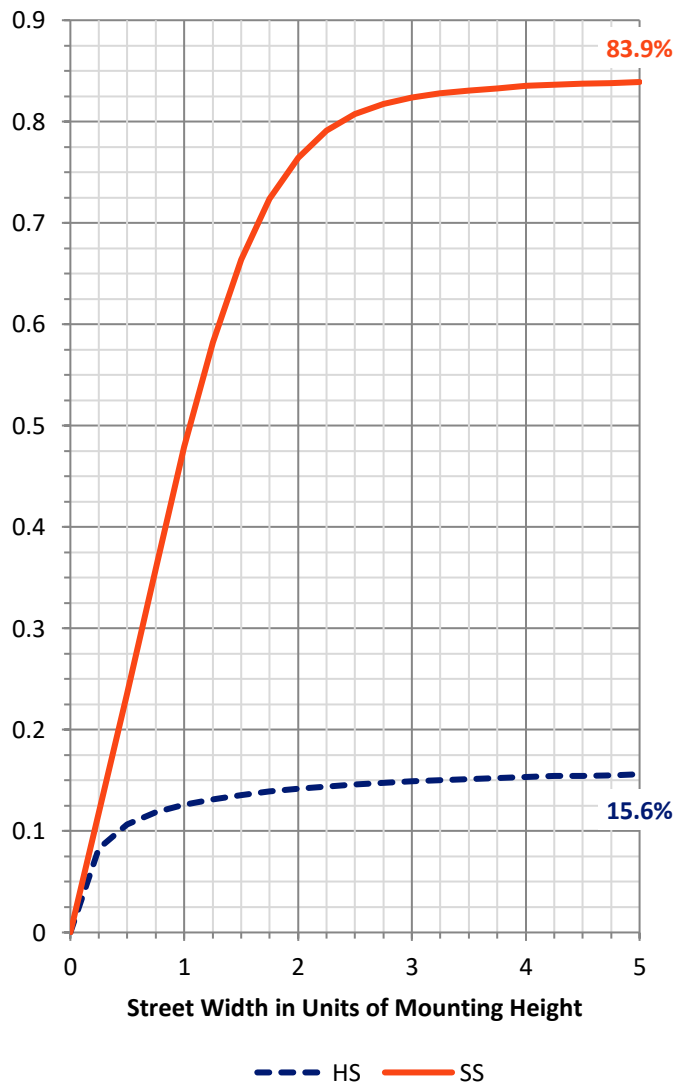
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5803.4	0.0	5803.4
	% Fixture	15.8	0.0	15.8
<b>Street Side</b>	Lumens	30855.0	0.0	30855.0
	% Fixture	84.2	0.0	84.2
<b>Total</b>	Lumens	36658.4	0.0	36658.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	549.5	1.5
10°-20°	1499.1	4.1
20°-30°	2351.1	6.4
30°-40°	3356.2	9.2
40°-50°	5065.4	13.8
50°-60°	8063.3	22.0
60°-70°	10308.3	28.1
70°-80°	5026.0	13.7
80°-90°	439.7	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°	36658.4	100.0
0°-180°	36658.4	100.0

**Coefficient of Utilization**

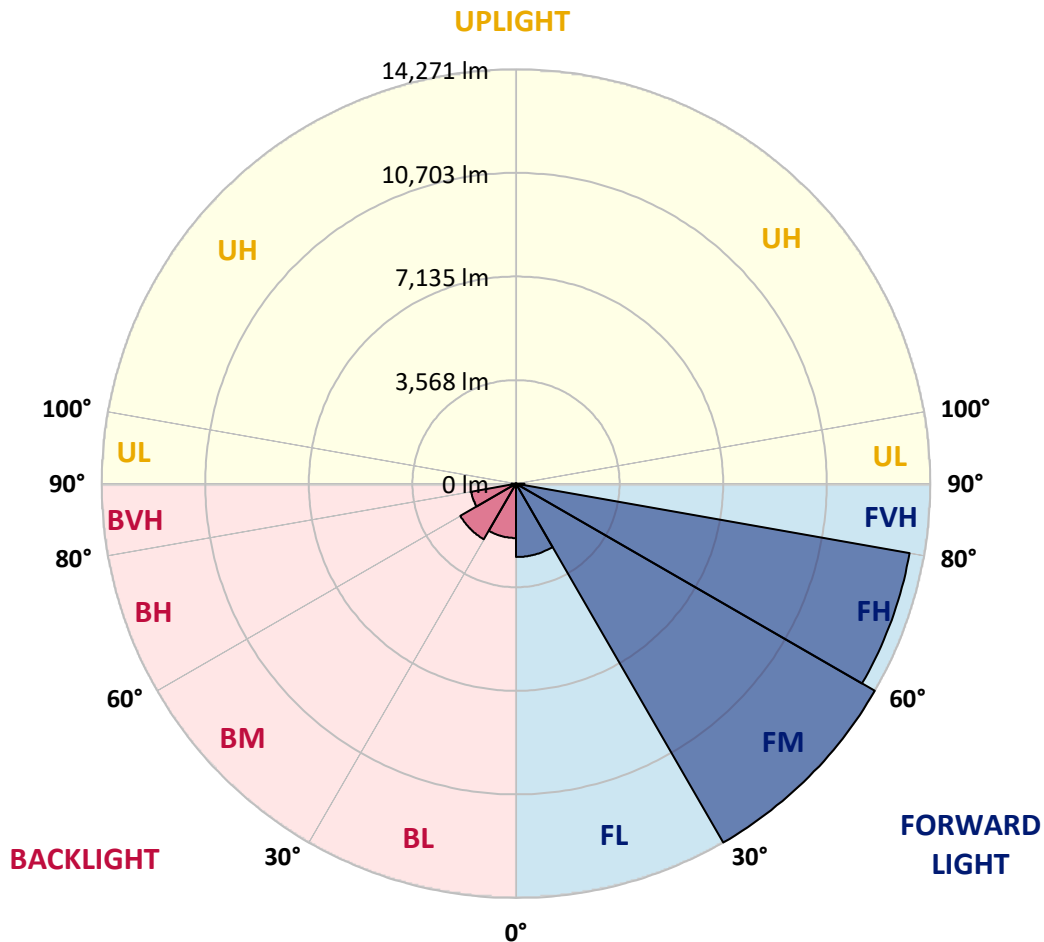


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2526.2	6.9			
FM (30°-60°)	14270.8	38.9			
FH (60°-80°)	13766.0	37.6			G5
FVH (80°-90°)	292.0	0.8			G3/500
BL (0°-30°)	1873.5	5.1	B3/2500		
BM (30°-60°)	2214.1	6.0	B2/2500		
BH (60°-80°)	1568.2	4.3	B3/2500		G3/2500
BVH (80°-90°)	147.7	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°	5704.0	5704.0	5704.0	5704.0	5704.0	5704.0	5704.0	5704.0	5704.0	5704.0
2.5°	5239.7	5218.2	5244.0	5218.2	5334.3	5403.1	5424.6	5454.6	5562.1	5665.3
5°	5020.5	4925.9	5029.1	5063.5	5072.1	5188.1	5308.5	5330.0	5385.9	5553.5
7.5°	4655.1	4762.6	4723.9	4827.1	4934.5	5050.6	5248.3	5192.4	5398.8	5557.8
10°	4577.8	4586.4	4629.4	4668.0	4762.6	4913.1	5188.1	5153.8	5364.4	5704.0
12.5°	4655.1	4655.1	4642.3	4612.2	4719.6	4865.8	5085.0	5102.2	5433.2	5746.9
15°	4925.9	4977.5	4840.0	4861.5	4818.5	4865.8	5059.2	5097.9	5458.9	5781.3
17.5°	5587.9	5570.7	5407.4	5179.6	4990.4	4960.3	5093.6	5136.6	5433.2	5880.2
20°	6232.7	6198.3	5914.6	5678.2	5304.2	5128.0	5149.5	5153.8	5476.1	5944.7
22.5°	6950.5	7040.7	6731.3	6249.8	5785.6	5347.2	5261.2	5330.0	5575.0	5979.0
25°	8076.7	7883.2	7616.7	6984.9	6237.0	5686.8	5446.0	5480.4	5669.6	6065.0
27.5°	8889.1	8811.7	8394.7	7883.2	6868.8	5953.3	5544.9	5609.4	5841.5	6060.7
30°	9671.4	9671.4	9417.8	8652.6	7535.1	6400.3	5755.5	5725.4	5759.8	6052.1
32.5°	10586.9	10462.3	10096.9	9589.7	8373.2	6808.6	5923.2	5931.8	5931.8	6211.2
35°	11068.3	11270.4	11025.3	10200.1	9013.7	7487.8	6327.2	6262.7	6215.5	6387.4
37.5°	11773.3	11893.6	11635.7	11150.0	9808.9	8038.0	6684.0	6632.4	6357.3	6524.9
40°	12198.8	12177.3	12168.7	11945.2	10862.0	8687.0	7208.4	7075.1	6705.5	7010.7
42.5°	12439.5	12396.5	12925.2	12787.7	11854.9	9641.3	7866.0	7793.0	7384.6	7874.6
45°	12710.3	13028.4	13462.5	13849.4	13011.2	10982.4	8979.3	8876.2	8510.8	9134.1
47.5°	12946.7	13337.9	13892.4	14305.0	14055.7	12439.5	10354.8	10380.6	10139.9	10780.3
50°	13342.2	13380.9	14133.1	14967.0	15160.4	13784.9	12203.1	12160.1	12052.7	12951.0
52.5°	13221.8	13337.9	14287.8	15353.8	15671.9	15207.7	14189.0	14317.9	14176.1	15306.5
55°	11261.8	11609.9	14193.3	15762.2	16884.0	16815.3	16742.2	16656.2	16647.6	17954.3
57.5°	10372.0	10655.7	12504.0	16213.5	18182.2	18689.4	19162.2	19256.8	19252.5	20830.0
60°	9787.4	10079.7	11820.6	15968.5	19286.8	21143.7	22050.7	22063.6	22037.8	23903.3
62.5°	8644.0	8927.7	10638.5	14627.4	19592.0	23409.0	25429.2	25596.9	24414.8	26551.1
65°	7268.6	7500.7	9009.4	12577.1	18779.6	24848.9	27969.6	27771.8	26417.9	28064.1
67°	5944.7	6099.4	7569.5	10797.5	16656.2	24156.9	28704.6	28867.9	27342.0	28128.6
67.5°	5566.4	5708.3	7096.6	10191.5	15848.1	23632.5	28730.4	28704.6	27359.2	28141.5
70°	3864.2	3924.4	4835.7	7010.7	11674.4	19966.0	26632.8	26693.0	26211.5	26615.6
72.5°	2561.8	2652.1	3232.4	4418.7	6881.7	14528.5	22261.3	22906.1	22600.9	21822.9
75°	1650.6	1702.2	2114.8	2630.6	3387.1	8274.4	16445.6	16875.4	16174.8	13496.9
77.5°	924.2	980.0	1276.6	1599.0	1650.6	3443.0	9237.2	9770.2	8278.7	5734.0
80°	576.0	649.1	962.8	949.9	786.6	1263.7	3808.4	4079.2	3309.8	1973.0
82.5°	434.1	490.0	743.6	666.2	442.7	563.1	1427.1	1530.2	1212.1	760.8
85°	296.6	374.0	537.3	412.6	232.1	270.8	567.4	610.4	554.5	369.7
87.5°	107.5	159.0	279.4	206.3	103.2	81.7	184.8	206.3	197.7	167.6
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°
5704.0	0°	5704.0	5704.0	5704.0	5704.0	5704.0	5704.0	5704.0	5704.0	5704.0	5704.0
5755.5	2.5°	5837.2	5897.4	5927.5	6103.7	6176.8	6163.9	6181.1	6206.9	6232.7	6267.0
5828.6	5°	5884.5	6069.3	6168.2	6374.5	6512.0	6451.9	6529.2	6507.8	6477.7	6473.4
5961.9	7.5°	6039.2	6275.6	6572.2	6628.1	6688.3	6537.8	6408.9	6232.7	6189.7	6039.2
6073.6	10°	6314.3	6507.8	6868.8	6890.3	6623.8	6237.0	5949.0	5583.6	5579.3	5360.1
6245.5	12.5°	6576.5	6795.7	7088.0	6963.4	6327.2	5798.5	5330.0	4930.2	4762.6	4650.8
6348.7	15°	6739.9	7100.9	7255.7	6718.4	5807.1	5093.6	4487.5	4057.7	3885.7	3804.1
6477.7	17.5°	6890.3	7393.2	7324.4	6288.5	5166.7	4367.2	3645.0	3271.1	3223.8	3163.6
6684.0	20°	7096.6	7500.7	7079.4	5729.7	4440.2	3430.1	2970.2	2789.6	2832.6	2858.4
6705.5	22.5°	7290.1	7556.6	6770.0	5119.4	3507.5	2716.6	2488.8	2527.4	2591.9	2677.9
6757.1	25°	7376.0	7646.8	6353.0	4276.9	2669.3	2286.7	2235.2	2299.6	2407.1	2411.4
6830.1	27.5°	7431.9	7582.3	5850.1	3455.9	2110.5	1998.7	2076.1	2123.4	2136.3	2187.9
6984.9	30°	7530.8	7449.1	5213.9	2471.6	1770.9	1775.2	1874.1	1874.1	1874.1	1912.8
7139.6	32.5°	7702.7	7358.8	4470.3	1805.3	1525.9	1663.5	1637.7	1629.1	1611.9	1564.6
7337.3	35°	7810.2	7113.8	3529.0	1336.8	1371.2	1525.9	1517.3	1384.1	1160.6	1048.8
7840.2	37.5°	8033.7	6989.2	2596.2	1031.6	1280.9	1457.2	1409.9	1087.5	842.5	735.0
8463.5	40°	8515.1	6907.5	1796.7	902.7	1220.7	1422.8	1259.4	928.5	644.8	455.6
9426.4	42.5°	9104.0	6911.8	1220.7	851.1	1225.0	1495.8	1212.1	795.2	455.6	365.4
10711.6	45°	9894.9	6847.3	838.2	851.1	1302.4	1616.2	1242.2	722.1	442.7	464.2
12323.5	47.5°	10746.0	6903.2	623.3	773.7	1315.3	1620.5	1134.8	709.2	425.5	537.3
14077.2	50°	11738.9	6959.1	515.8	713.5	1319.6	1568.9	1044.5	692.0	442.7	567.4
16088.8	52.5°	12761.9	7135.3	438.4	674.8	1371.2	1547.4	1044.5	717.8	442.7	494.3
18650.7	55°	14287.8	7586.6	631.9	842.5	1560.3	1689.3	1285.2	1005.8	619.0	636.2
21105.1	57.5°	15972.8	8050.9	704.9	885.5	1603.3	1521.6	1384.1	1109.0	653.4	657.7
23013.5	60°	17081.8	8068.1	700.6	864.0	1500.1	1315.3	1354.0	1169.2	666.2	563.1
24195.6	62.5°	17524.5	7543.7	730.7	864.0	1397.0	1229.3	1388.4	1259.4	687.7	704.9
24530.9	65°	17021.6	6460.5	704.9	773.7	1229.3	1100.4	1397.0	1276.6	752.2	709.2
23929.1	67°	16235.0	5566.4	717.8	735.0	1143.4	1044.5	1470.0	1341.1	872.6	851.1
23615.3	67.5°	16011.5	5330.0	713.5	713.5	1113.3	1027.3	1487.2	1341.1	889.8	881.2
20842.9	70°	14111.6	4319.9	730.7	704.9	984.3	975.7	1581.8	1414.2	1023.0	1031.6
15310.8	72.5°	10741.7	3275.4	726.4	704.9	855.4	932.7	1594.7	1461.4	1113.3	1031.6
8575.3	75°	6103.7	1960.1	640.5	614.7	674.8	812.4	1491.5	1392.7	1083.2	924.2
3425.8	77.5°	2523.2	1010.1	588.9	554.5	558.8	662.0	1242.2	1298.1	1031.6	786.6
1143.4	80°	941.3	606.1	472.8	442.7	429.8	485.7	885.5	1035.9	881.2	644.8
502.9	82.5°	490.0	378.3	322.4	322.4	292.3	309.5	477.1	687.7	666.2	442.7
202.0	85°	249.3	214.9	184.8	180.5	163.3	146.1	240.7	408.3	382.6	245.0
90.3	87.5°	133.2	120.4	77.4	73.1	60.2	38.7	43.0	81.7	133.2	107.5
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>
5704.0
6301.4
6512.0
6090.8
5351.5
4625.1
3786.9
3193.7
2828.3
2630.6
2454.4
2235.2
1955.8
1538.8
1100.4
730.7
442.7
356.8
472.8
597.5
657.7
507.2
670.5
636.2
580.3
713.5
696.3
838.2
864.0
954.2
915.6
825.3
743.6
588.9
348.2
202.0
77.4
0.0

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