

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: P477830

Luminaire Tested: **IFLD-L-SA7A-750-U-T3R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477830
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-750-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

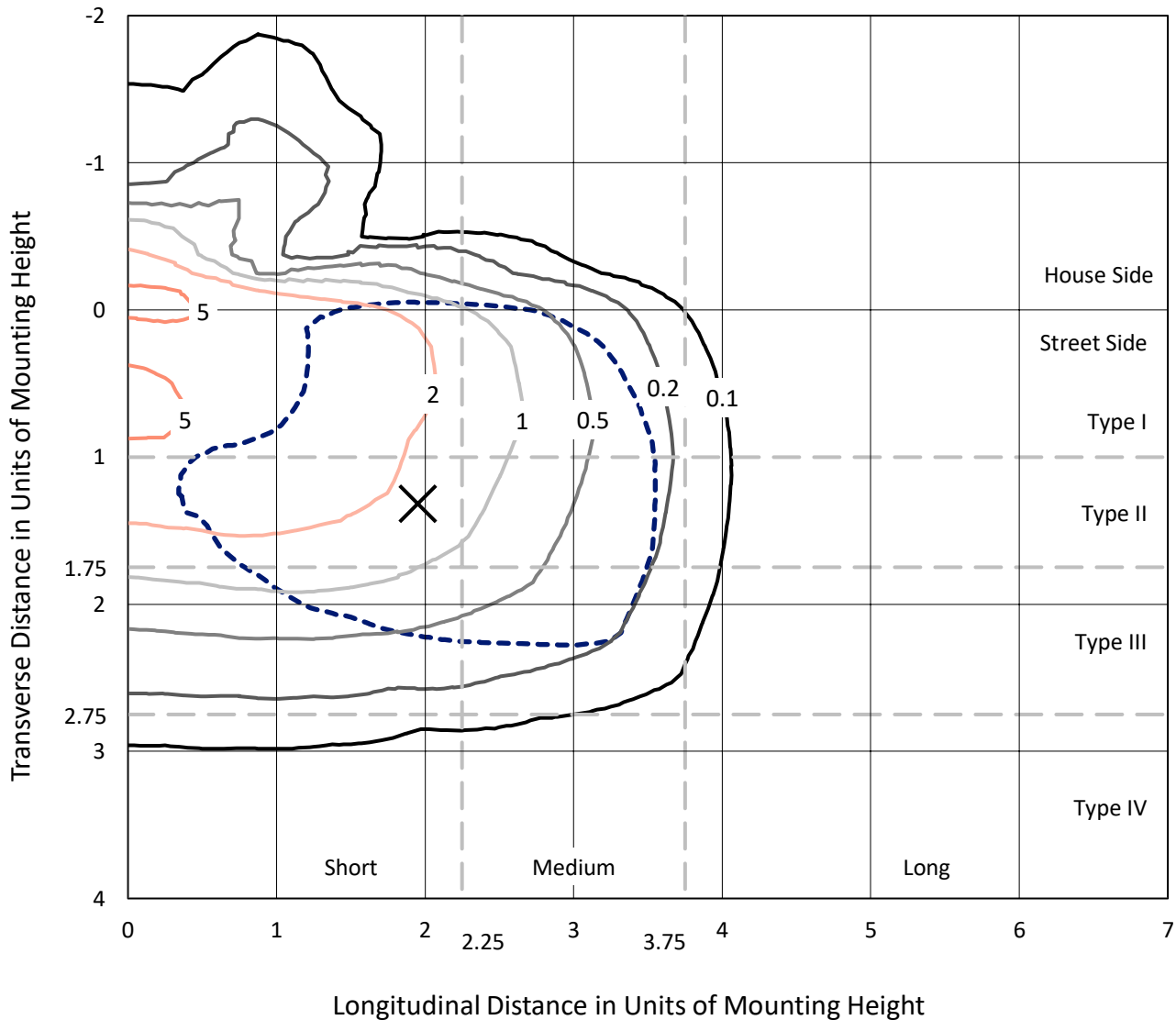
Lumens per Lamp: N/A
Luminaire Lumens: 31450.5 lumens
Efficiency: N/A
Efficacy: 144.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 217.6
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

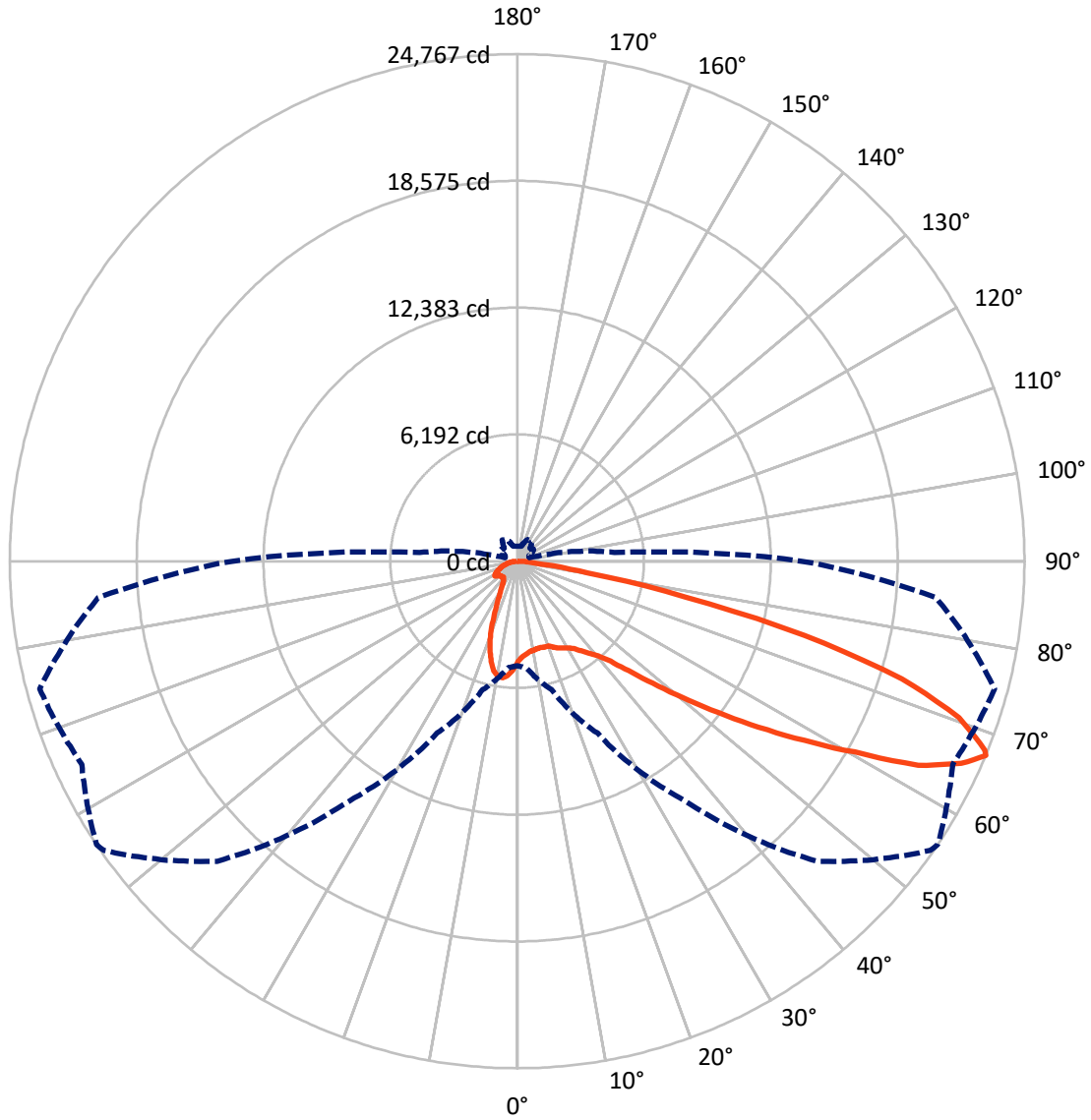
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 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
House Side	Lumens	4978.9	0.0	4978.9
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	26471.6	0.0	26471.6
	% Fixture	84.2	0.0	84.2
Total	Lumens	31450.5	0.0	31450.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	471.4	1.5
10°-20°	1286.1	4.1
20°-30°	2017.1	6.4
30°-40°	2879.4	9.2
40°-50°	4345.8	13.8
50°-60°	6917.7	22.0
60°-70°	8843.8	28.1
70°-80°	4311.9	13.7
80°-90°	377.2	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°	31450.5	100.0
0°-180°	31450.5	100.0

Coefficient of Utilization

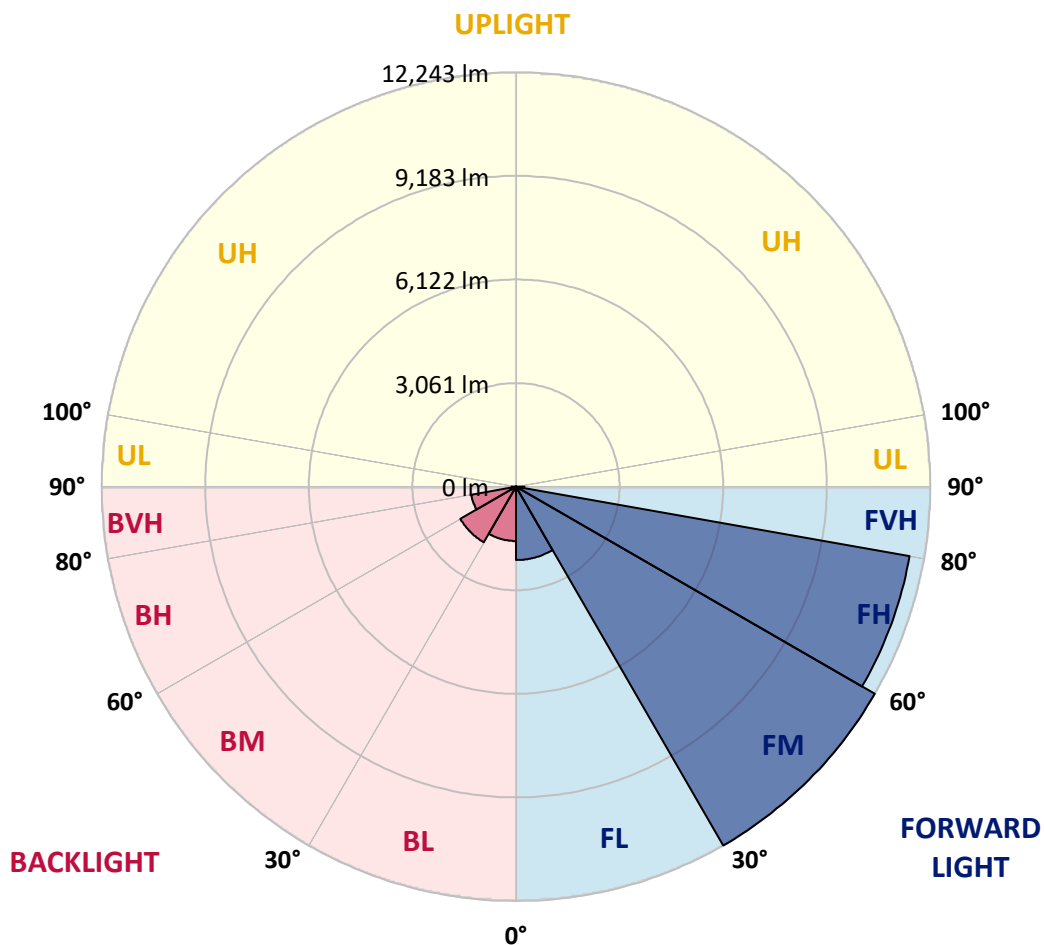


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2167.3	6.9			
FM (30°-60°)	12243.4	38.9			
FH (60°-80°)	11810.4	37.6			G4/12000
FVH (80°-90°)	250.5	0.8			G3/500
BL (0°-30°)	1607.3	5.1	B3/2500		
BM (30°-60°)	1899.5	6.0	B2/2500		
BH (60°-80°)	1345.4	4.3	B3/2500		G3/2500
BVH (80°-90°)	126.7	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-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	4893.6	4893.6	4893.6	4893.6	4893.6	4893.6	4893.6	4893.6	4893.6	4893.6
2.5°	4495.3	4476.9	4499.0	4476.9	4576.5	4635.5	4653.9	4679.7	4771.9	4860.4
5°	4307.3	4226.1	4314.6	4344.1	4351.5	4451.1	4554.3	4572.8	4620.7	4764.5
7.5°	3993.8	4086.0	4052.8	4141.3	4233.5	4333.1	4502.7	4454.8	4631.8	4768.2
10°	3927.4	3934.8	3971.7	4004.9	4086.0	4215.1	4451.1	4421.6	4602.3	4893.6
12.5°	3993.8	3993.8	3982.7	3956.9	4049.1	4174.5	4362.6	4377.3	4661.3	4930.5
15°	4226.1	4270.4	4152.4	4170.8	4133.9	4174.5	4340.5	4373.6	4683.4	4960.0
17.5°	4794.0	4779.3	4639.2	4443.7	4281.5	4255.6	4370.0	4406.8	4661.3	5044.8
20°	5347.2	5317.7	5074.3	4871.5	4550.7	4399.5	4417.9	4421.6	4698.2	5100.1
22.5°	5963.1	6040.5	5775.0	5362.0	4963.7	4587.5	4513.8	4572.8	4783.0	5129.6
25°	6929.2	6763.3	6534.7	5992.6	5350.9	4878.9	4672.4	4701.9	4864.1	5203.4
27.5°	7626.2	7559.8	7202.1	6763.3	5893.0	5107.5	4757.2	4812.5	5011.6	5199.7
30°	8297.4	8297.4	8079.8	7423.4	6464.6	5491.0	4937.9	4912.1	4941.6	5192.3
32.5°	9082.9	8975.9	8662.5	8227.3	7183.7	5841.4	5081.7	5089.1	5089.1	5328.8
35°	9495.9	9669.2	9459.0	8751.0	7733.2	6424.0	5428.3	5373.0	5332.5	5480.0
37.5°	10100.7	10203.9	9982.7	9566.0	8415.4	6896.1	5734.4	5690.2	5454.1	5598.0
40°	10465.8	10447.3	10440.0	10248.2	9318.9	7452.9	6184.3	6070.0	5752.9	6014.7
42.5°	10672.3	10635.4	11089.0	10971.0	10170.8	8271.6	6748.5	6685.8	6335.5	6755.9
45°	10904.6	11177.5	11550.0	11881.9	11162.8	9422.1	7703.7	7615.2	7301.7	7836.4
47.5°	11107.4	11443.0	11918.7	12272.8	12058.9	10672.3	8883.7	8905.9	8699.3	9248.8
50°	11446.7	11479.9	12125.2	12840.7	13006.6	11826.5	10469.5	10432.6	10340.4	11111.1
52.5°	11343.4	11443.0	12258.0	13172.6	13445.5	13047.2	12173.2	12283.8	12162.1	13132.0
55°	9661.8	9960.6	12176.9	13522.9	14485.4	14426.4	14363.7	14289.9	14282.6	15403.6
57.5°	8898.5	9141.9	10727.6	13910.1	15599.1	16034.2	16439.9	16521.0	16517.3	17870.7
60°	8397.0	8647.7	10141.3	13699.9	16546.8	18139.9	18918.0	18929.1	18907.0	20507.5
62.5°	7416.0	7659.4	9127.1	12549.3	16808.7	20083.4	21816.6	21960.4	20946.3	22779.1
65°	6235.9	6435.1	7729.5	10790.3	16111.7	21318.8	23996.0	23826.4	22664.8	24077.2
67°	5100.1	5232.9	6494.1	9263.6	14289.9	20725.0	24626.6	24766.8	23457.6	24132.5
67.5°	4775.6	4897.3	6088.4	8743.6	13596.7	20275.1	24648.8	24626.6	23472.4	24143.6
70°	3315.3	3366.9	4148.7	6014.7	10015.9	17129.5	22849.2	22900.8	22487.8	22834.4
72.5°	2197.9	2275.3	2773.2	3791.0	5904.1	12464.5	19098.7	19651.9	19390.1	18722.6
75°	1416.1	1460.3	1814.4	2256.9	2905.9	7098.9	14109.2	14478.0	13876.9	11579.5
77.5°	792.9	840.8	1095.3	1371.8	1416.1	2953.9	7924.9	8382.2	7102.6	4919.4
80°	494.2	556.8	826.1	815.0	674.9	1084.2	3267.3	3499.7	2839.6	1692.7
82.5°	372.5	420.4	638.0	571.6	379.8	483.1	1224.3	1312.8	1039.9	652.7
85°	254.5	320.8	461.0	354.0	199.1	232.3	486.8	523.7	475.7	317.1
87.5°	92.2	136.4	239.7	177.0	88.5	70.1	158.6	177.0	169.6	143.8
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°
4893.6	0°	4893.6	4893.6	4893.6	4893.6	4893.6	4893.6	4893.6	4893.6	4893.6	4893.6
4937.9	2.5°	5007.9	5059.6	5085.4	5236.6	5299.3	5288.2	5303.0	5325.1	5347.2	5376.7
5000.6	5°	5048.5	5207.1	5291.9	5468.9	5586.9	5535.3	5601.7	5583.2	5557.4	5553.7
5114.9	7.5°	5181.3	5384.1	5638.5	5686.5	5738.1	5609.0	5498.4	5347.2	5310.3	5181.3
5210.8	10°	5417.3	5583.2	5893.0	5911.4	5682.8	5350.9	5103.8	4790.4	4786.7	4598.6
5358.3	12.5°	5642.2	5830.3	6081.1	5974.1	5428.3	4974.7	4572.8	4229.8	4086.0	3990.1
5446.8	15°	5782.4	6092.1	6224.9	5763.9	4982.1	4370.0	3850.0	3481.2	3333.7	3263.6
5557.4	17.5°	5911.4	6342.9	6283.9	5395.1	4432.6	3746.7	3127.2	2806.4	2765.8	2714.2
5734.4	20°	6088.4	6435.1	6073.7	4915.7	3809.4	2942.8	2548.2	2393.3	2430.2	2452.3
5752.9	22.5°	6254.4	6483.0	5808.2	4392.1	3009.2	2330.6	2135.2	2168.4	2223.7	2297.5
5797.1	25°	6328.1	6560.5	5450.5	3669.3	2290.1	1961.9	1917.6	1972.9	2065.1	2068.8
5859.8	27.5°	6376.1	6505.2	5019.0	2964.9	1810.7	1714.8	1781.2	1821.7	1832.8	1877.1
5992.6	30°	6460.9	6390.8	4473.2	2120.4	1519.3	1523.0	1607.8	1607.8	1607.8	1641.0
6125.3	32.5°	6608.4	6313.4	3835.2	1548.8	1309.1	1427.2	1405.0	1397.6	1382.9	1342.3
6295.0	35°	6700.6	6103.2	3027.6	1146.9	1176.4	1309.1	1301.8	1187.4	995.7	899.8
6726.4	37.5°	6892.4	5996.2	2227.4	885.1	1098.9	1250.1	1209.6	933.0	722.8	630.6
7261.1	40°	7305.4	5926.2	1541.5	774.4	1047.3	1220.6	1080.5	796.5	553.2	390.9
8087.2	42.5°	7810.6	5929.9	1047.3	730.2	1051.0	1283.3	1039.9	682.2	390.9	313.5
9189.8	45°	8489.1	5874.5	719.1	730.2	1117.4	1386.6	1065.8	619.5	379.8	398.3
10572.7	47.5°	9219.3	5922.5	534.7	663.8	1128.4	1390.3	973.6	608.5	365.1	461.0
12077.3	50°	10071.2	5970.4	442.5	612.2	1132.1	1346.0	896.1	593.7	379.8	486.8
13803.2	52.5°	10948.9	6121.6	376.1	579.0	1176.4	1327.6	896.1	615.9	379.8	424.1
16001.0	55°	12258.0	6508.8	542.1	722.8	1338.6	1449.3	1102.6	862.9	531.0	545.8
18106.7	57.5°	13703.6	6907.1	604.8	759.7	1375.5	1305.5	1187.4	951.4	560.5	564.2
19744.1	60°	14655.0	6921.9	601.1	741.2	1287.0	1128.4	1161.6	1003.1	571.6	483.1
20758.2	62.5°	15034.9	6472.0	626.9	741.2	1198.5	1054.7	1191.1	1080.5	590.0	604.8
21045.9	65°	14603.4	5542.7	604.8	663.8	1054.7	944.1	1198.5	1095.3	645.4	608.5
20529.6	67°	13928.5	4775.6	615.9	630.6	980.9	896.1	1261.2	1150.6	748.6	730.2
20260.4	67.5°	13736.8	4572.8	612.2	612.2	955.1	881.4	1276.0	1150.6	763.4	756.0
17881.8	70°	12106.8	3706.2	626.9	604.8	844.5	837.1	1357.1	1213.3	877.7	885.1
13135.7	72.5°	9215.6	2810.0	623.2	604.8	733.9	800.2	1368.1	1253.8	955.1	885.1
7357.0	75°	5236.6	1681.6	549.5	527.3	579.0	697.0	1279.6	1194.8	929.3	792.9
2939.1	77.5°	2164.7	866.6	505.2	475.7	479.4	567.9	1065.8	1113.7	885.1	674.9
980.9	80°	807.6	520.0	405.7	379.8	368.8	416.7	759.7	888.7	756.0	553.2
431.5	82.5°	420.4	324.5	276.6	276.6	250.8	265.5	409.3	590.0	571.6	379.8
173.3	85°	213.9	184.4	158.6	154.9	140.1	125.4	206.5	350.3	328.2	210.2
77.4	87.5°	114.3	103.3	66.4	62.7	51.6	33.2	36.9	70.1	114.3	92.2
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>
4893.6
5406.2
5586.9
5225.5
4591.2
3968.0
3248.9
2740.0
2426.5
2256.9
2105.7
1917.6
1677.9
1320.2
944.1
626.9
379.8
306.1
405.7
512.6
564.2
435.2
575.3
545.8
497.8
612.2
597.4
719.1
741.2
818.7
785.5
708.0
638.0
505.2
298.7
173.3
66.4
0.0

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