

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: P477750

Luminaire Tested: **IFLD-M-SA4D-735-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477750
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-735-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

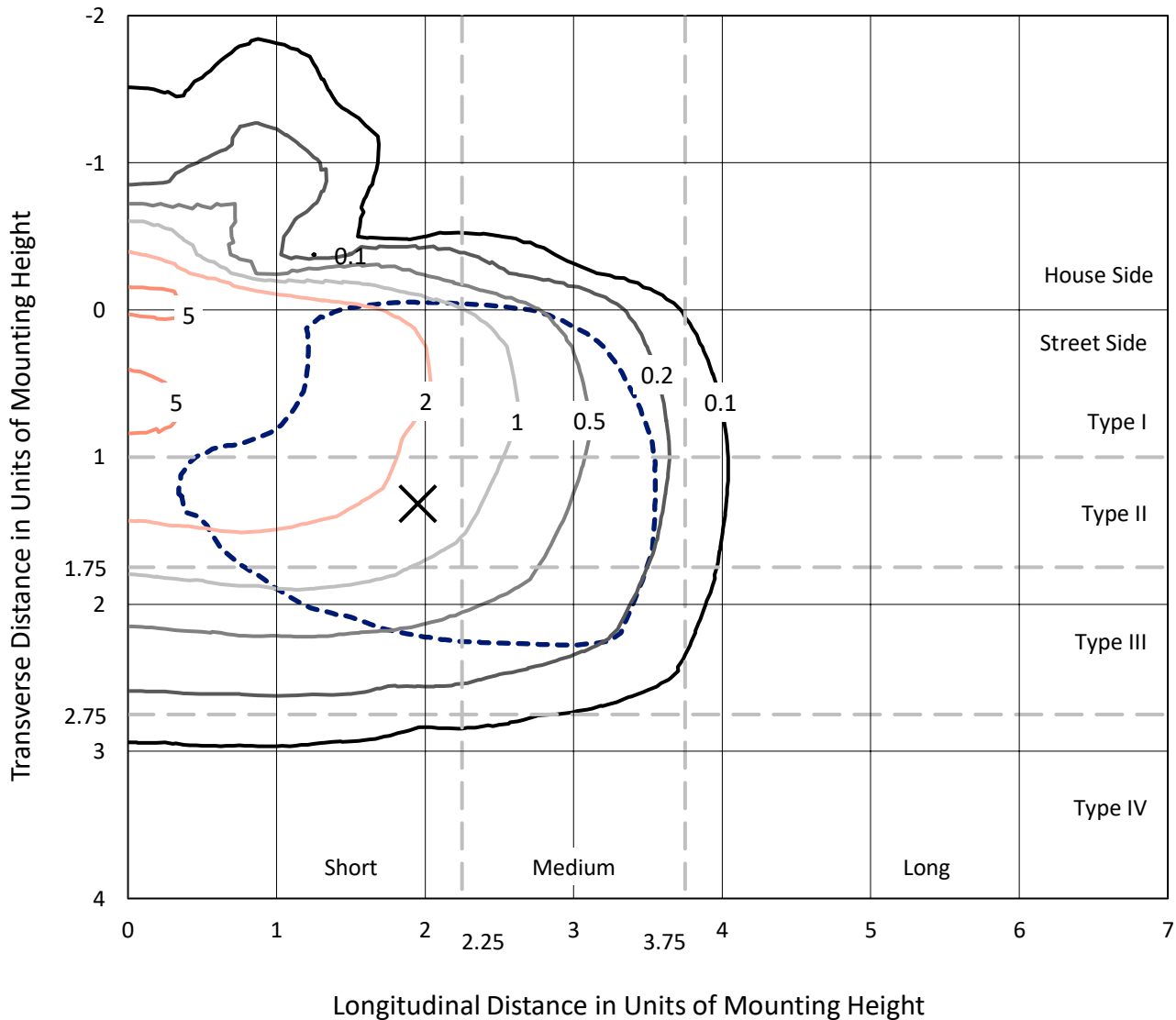
Lumens per Lamp: N/A
Luminaire Lumens: 30309.1 lumens
Efficiency: N/A
Efficacy: 121.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 249.7
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

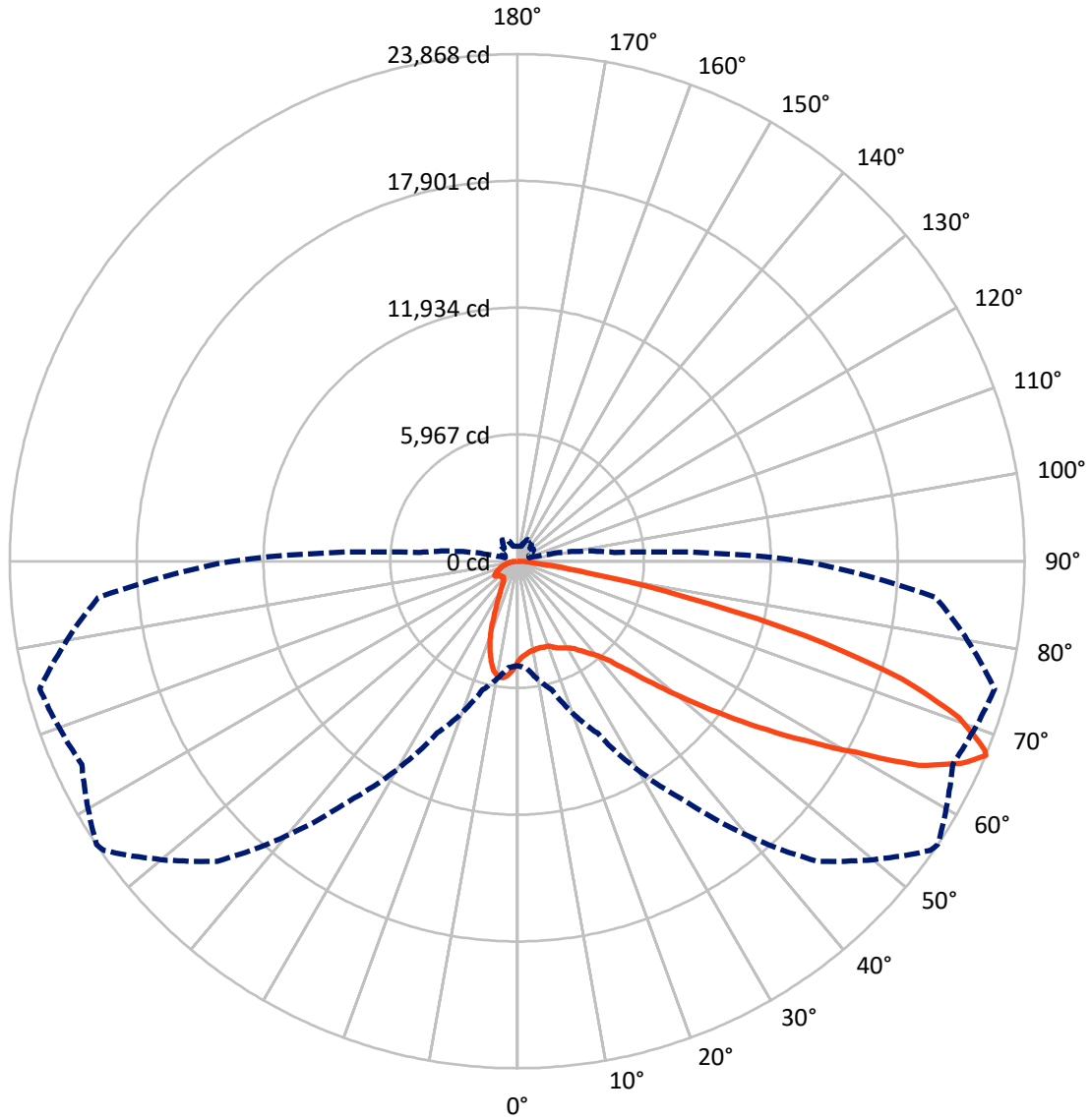
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.8 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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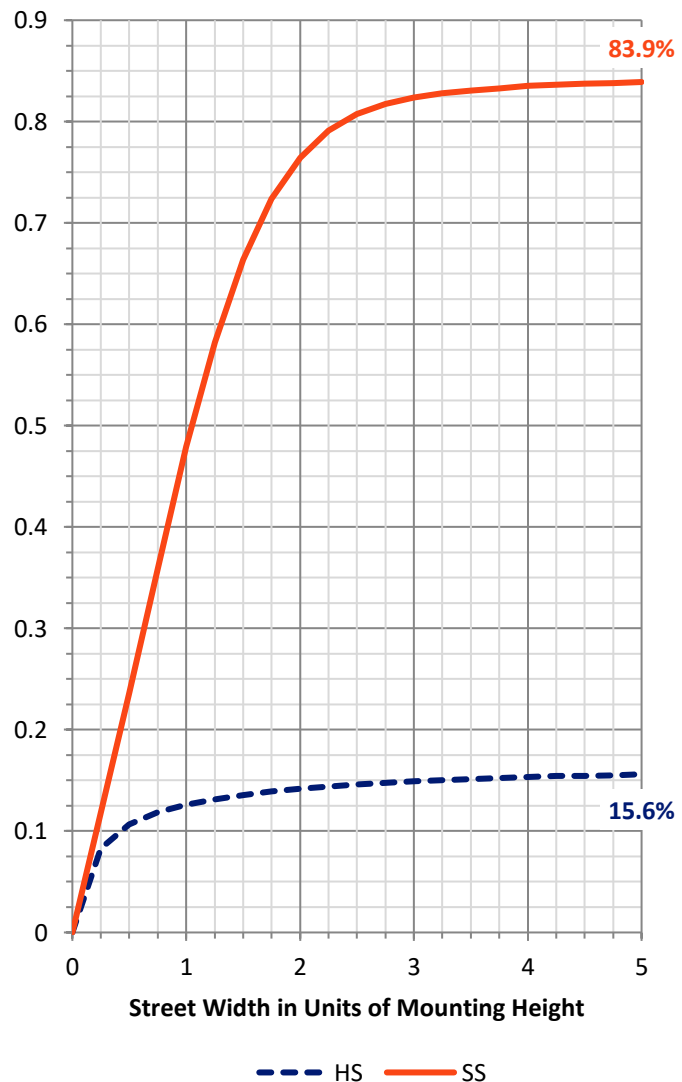
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4798.2	0.0	4798.2
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	25510.9	0.0	25510.9
	% Fixture	84.2	0.0	84.2
Total	Lumens	30309.1	0.0	30309.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	454.3	1.5
10°-20°	1239.5	4.1
20°-30°	1943.8	6.4
30°-40°	2774.9	9.2
40°-50°	4188.1	13.8
50°-60°	6666.7	22.0
60°-70°	8522.8	28.1
70°-80°	4155.5	13.7
80°-90°	363.5	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°	30309.1	100.0
0°-180°	30309.1	100.0

Coefficient of Utilization

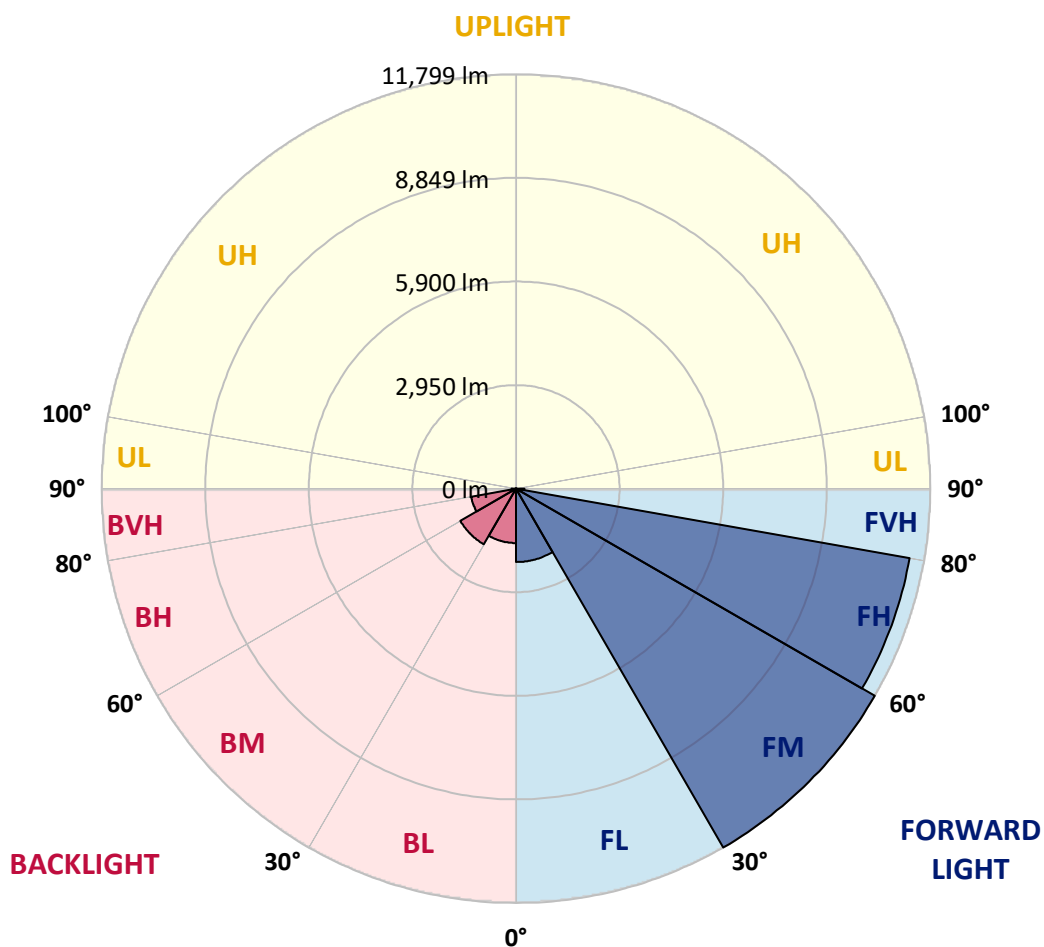


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2088.6	6.9			
FM (30°-60°)	11799.1	38.9			
FH (60°-80°)	11381.7	37.6			G4/12000
FVH (80°-90°)	241.4	0.8			G3/500
BL (0°-30°)	1549.0	5.1	B3/2500		
BM (30°-60°)	1830.6	6.0	B2/2500		
BH (60°-80°)	1296.6	4.3	B3/2500		G3/2500
BVH (80°-90°)	122.1	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°	4716.0	4716.0	4716.0	4716.0	4716.0	4716.0	4716.0	4716.0	4716.0	4716.0
2.5°	4332.2	4314.4	4335.7	4314.4	4410.4	4467.2	4485.0	4509.9	4598.7	4684.0
5°	4150.9	4072.8	4158.1	4186.5	4193.6	4289.5	4389.1	4406.8	4453.0	4591.6
7.5°	3848.9	3937.7	3905.7	3991.0	4079.9	4175.8	4339.3	4293.1	4463.7	4595.2
10°	3784.9	3792.0	3827.5	3859.5	3937.7	4062.1	4289.5	4261.1	4435.3	4716.0
12.5°	3848.9	3848.9	3838.2	3813.3	3902.2	4023.0	4204.3	4218.5	4492.1	4751.6
15°	4072.8	4115.4	4001.7	4019.5	3983.9	4023.0	4182.9	4214.9	4513.4	4780.0
17.5°	4620.1	4605.8	4470.8	4282.4	4126.1	4101.2	4211.4	4246.9	4492.1	4861.7
20°	5153.1	5124.7	4890.2	4694.7	4385.5	4239.8	4257.6	4261.1	4527.7	4915.0
22.5°	5746.6	5821.3	5565.4	5167.4	4783.5	4421.0	4350.0	4406.8	4609.4	4943.5
25°	6677.8	6517.8	6297.5	5775.1	5156.7	4701.8	4502.8	4531.2	4687.6	5014.5
27.5°	7349.5	7285.5	6940.8	6517.8	5679.1	4922.1	4584.5	4637.8	4829.7	5011.0
30°	7996.3	7996.3	7786.6	7154.0	6230.0	5291.7	4758.7	4733.8	4762.2	5003.9
32.5°	8753.2	8650.2	8348.1	7928.7	6923.0	5629.4	4897.3	4904.4	4904.4	5135.4
35°	9151.3	9318.3	9115.7	8433.4	7452.5	6190.9	5231.3	5178.0	5138.9	5281.1
37.5°	9734.1	9833.6	9620.4	9218.8	8110.0	6645.8	5526.3	5483.7	5256.2	5394.8
40°	10085.9	10068.2	10061.1	9876.3	8980.7	7182.4	5959.9	5849.7	5544.1	5796.4
42.5°	10285.0	10249.4	10686.6	10572.8	9801.6	7971.4	6503.6	6443.2	6105.6	6510.7
45°	10508.9	10771.8	11130.8	11450.6	10757.6	9080.2	7424.1	7338.8	7036.7	7552.0
47.5°	10704.3	11027.7	11486.2	11827.4	11621.2	10285.0	8561.3	8582.7	8383.6	8913.2
50°	11031.3	11063.3	11685.2	12374.7	12534.6	11397.3	10089.5	10054.0	9965.1	10707.9
52.5°	10931.8	11027.7	11813.1	12694.5	12957.5	12573.7	11731.4	11838.0	11720.7	12655.4
55°	9311.2	9599.1	11735.0	13032.1	13959.7	13902.8	13842.4	13771.3	13764.2	14844.6
57.5°	8575.5	8810.1	10338.3	13405.3	15033.0	15452.3	15843.3	15921.4	15917.9	17222.2
60°	8092.2	8333.9	9773.2	13202.7	15946.3	17481.6	18231.5	18242.1	18220.8	19763.2
62.5°	7146.9	7381.4	8795.9	12093.9	16198.6	19354.5	21024.8	21163.4	20186.1	21952.4
65°	6009.6	6201.5	7449.0	10398.7	15527.0	20545.1	23125.2	22961.7	21842.2	23203.4
67°	4915.0	5043.0	6258.4	8927.4	13771.3	19972.9	23732.9	23867.9	22606.3	23256.7
67.5°	4602.3	4719.6	5867.5	8426.3	13103.2	19539.3	23754.2	23732.9	22620.5	23267.3
70°	3194.9	3244.7	3998.1	5796.4	9652.4	16507.8	22019.9	22069.7	21671.6	22005.7
72.5°	2118.1	2192.8	2672.5	3653.4	5689.8	12012.2	18405.6	18938.7	18686.4	18043.1
75°	1364.7	1407.3	1748.5	2175.0	2800.5	6841.2	13597.2	13952.6	13373.3	11159.2
77.5°	764.1	810.3	1055.5	1322.0	1364.7	2846.7	7637.3	8078.0	6844.8	4740.9
80°	476.2	536.6	796.1	785.4	650.4	1044.8	3148.7	3372.6	2736.5	1631.2
82.5°	358.9	405.1	614.8	550.9	366.1	465.6	1179.9	1265.2	1002.2	629.0
85°	245.2	309.2	444.2	341.2	191.9	223.9	469.1	504.7	458.5	305.6
87.5°	88.8	131.5	231.0	170.6	85.3	67.5	152.8	170.6	163.5	138.6
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°
4716.0	0°	4716.0	4716.0	4716.0	4716.0	4716.0	4716.0	4716.0	4716.0	4716.0	4716.0
4758.7	2.5°	4826.2	4875.9	4900.8	5046.5	5106.9	5096.3	5110.5	5131.8	5153.1	5181.6
4819.1	5°	4865.3	5018.1	5099.8	5270.4	5384.1	5334.4	5398.4	5380.6	5355.7	5352.2
4929.2	7.5°	4993.2	5188.7	5433.9	5480.1	5529.9	5405.5	5298.9	5153.1	5117.6	4993.2
5021.7	10°	5220.7	5380.6	5679.1	5696.9	5476.5	5156.7	4918.6	4616.5	4613.0	4431.7
5163.8	12.5°	5437.5	5618.7	5860.4	5757.3	5231.3	4794.2	4406.8	4076.3	3937.7	3845.3
5249.1	15°	5572.5	5871.0	5999.0	5554.7	4801.3	4211.4	3710.3	3354.9	3212.7	3145.2
5355.7	17.5°	5696.9	6112.7	6055.8	5199.3	4271.8	3610.8	3013.7	2704.5	2665.4	2615.7
5526.3	20°	5867.5	6201.5	5853.3	4737.3	3671.2	2836.0	2455.7	2306.5	2342.0	2363.3
5544.1	22.5°	6027.4	6247.7	5597.4	4232.7	2900.0	2246.1	2057.7	2089.7	2143.0	2214.1
5586.7	25°	6098.5	6322.4	5252.7	3536.1	2207.0	1890.7	1848.0	1901.3	1990.2	1993.7
5647.1	27.5°	6144.7	6269.1	4836.8	2857.3	1745.0	1652.6	1716.5	1755.6	1766.3	1808.9
5775.1	30°	6226.4	6158.9	4310.9	2043.5	1464.2	1467.8	1549.5	1549.5	1549.5	1581.5
5903.0	32.5°	6368.6	6084.3	3696.0	1492.6	1261.6	1375.4	1354.0	1346.9	1332.7	1293.6
6066.5	35°	6457.4	5881.7	2917.7	1105.3	1133.7	1261.6	1254.5	1144.4	959.6	867.1
6482.3	37.5°	6642.2	5778.6	2146.6	852.9	1059.1	1204.8	1165.7	899.1	696.6	607.7
6997.6	40°	7040.3	5711.1	1485.5	746.3	1009.3	1176.3	1041.3	767.6	533.1	376.7
7793.7	42.5°	7527.1	5714.7	1009.3	703.7	1012.9	1236.8	1002.2	657.5	376.7	302.1
8856.3	45°	8181.1	5661.4	693.0	703.7	1076.8	1336.3	1027.1	597.1	366.1	383.8
10189.0	47.5°	8884.7	5707.6	515.3	639.7	1087.5	1339.8	938.2	586.4	351.8	444.2
11639.0	50°	9705.7	5753.8	426.5	589.9	1091.0	1297.2	863.6	572.2	366.1	469.1
13302.2	52.5°	10551.5	5899.5	362.5	558.0	1133.7	1279.4	863.6	593.5	366.1	408.7
15420.3	55°	11813.1	6272.6	522.4	696.6	1290.1	1396.7	1062.6	831.6	511.8	526.0
17449.6	57.5°	13206.3	6656.4	582.8	732.1	1325.6	1258.1	1144.4	916.9	540.2	543.7
19027.5	60°	14123.2	6670.7	579.3	714.3	1240.3	1087.5	1119.5	966.7	550.9	465.6
20004.9	62.5°	14489.2	6237.1	604.2	714.3	1155.0	1016.4	1147.9	1041.3	568.6	582.8
20282.1	65°	14073.4	5341.5	582.8	639.7	1016.4	909.8	1155.0	1055.5	621.9	586.4
19784.5	67°	13423.1	4602.3	593.5	607.7	945.3	863.6	1215.4	1108.8	721.4	703.7
19525.1	67.5°	13238.3	4406.8	589.9	589.9	920.5	849.4	1229.6	1108.8	735.7	728.5
17232.8	70°	11667.4	3571.7	604.2	582.8	813.8	806.7	1307.8	1169.2	845.8	852.9
12659.0	72.5°	8881.2	2708.1	600.6	582.8	707.2	771.2	1318.5	1208.3	920.5	852.9
7090.0	75°	5046.5	1620.6	529.5	508.2	558.0	671.7	1233.2	1151.5	895.6	764.1
2832.5	77.5°	2086.1	835.2	486.9	458.5	462.0	547.3	1027.1	1073.3	852.9	650.4
945.3	80°	778.3	501.1	390.9	366.1	355.4	401.6	732.1	856.5	728.5	533.1
415.8	82.5°	405.1	312.7	266.5	266.5	241.7	255.9	394.5	568.6	550.9	366.1
167.0	85°	206.1	177.7	152.8	149.3	135.0	120.8	199.0	337.6	316.3	202.6
74.6	87.5°	110.2	99.5	64.0	60.4	49.8	32.0	35.5	67.5	110.2	88.8
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>
4716.0
5210.0
5384.1
5035.9
4424.6
3824.0
3131.0
2640.5
2338.5
2175.0
2029.3
1848.0
1617.0
1272.3
909.8
604.2
366.1
295.0
390.9
494.0
543.7
419.4
554.4
526.0
479.8
589.9
575.7
693.0
714.3
789.0
757.0
682.3
614.8
486.9
287.9
167.0
64.0
0.0

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