

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: P477952

Luminaire Tested: **IFLD-L-SA8A-830-U-T3R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477952
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-830-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (128) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

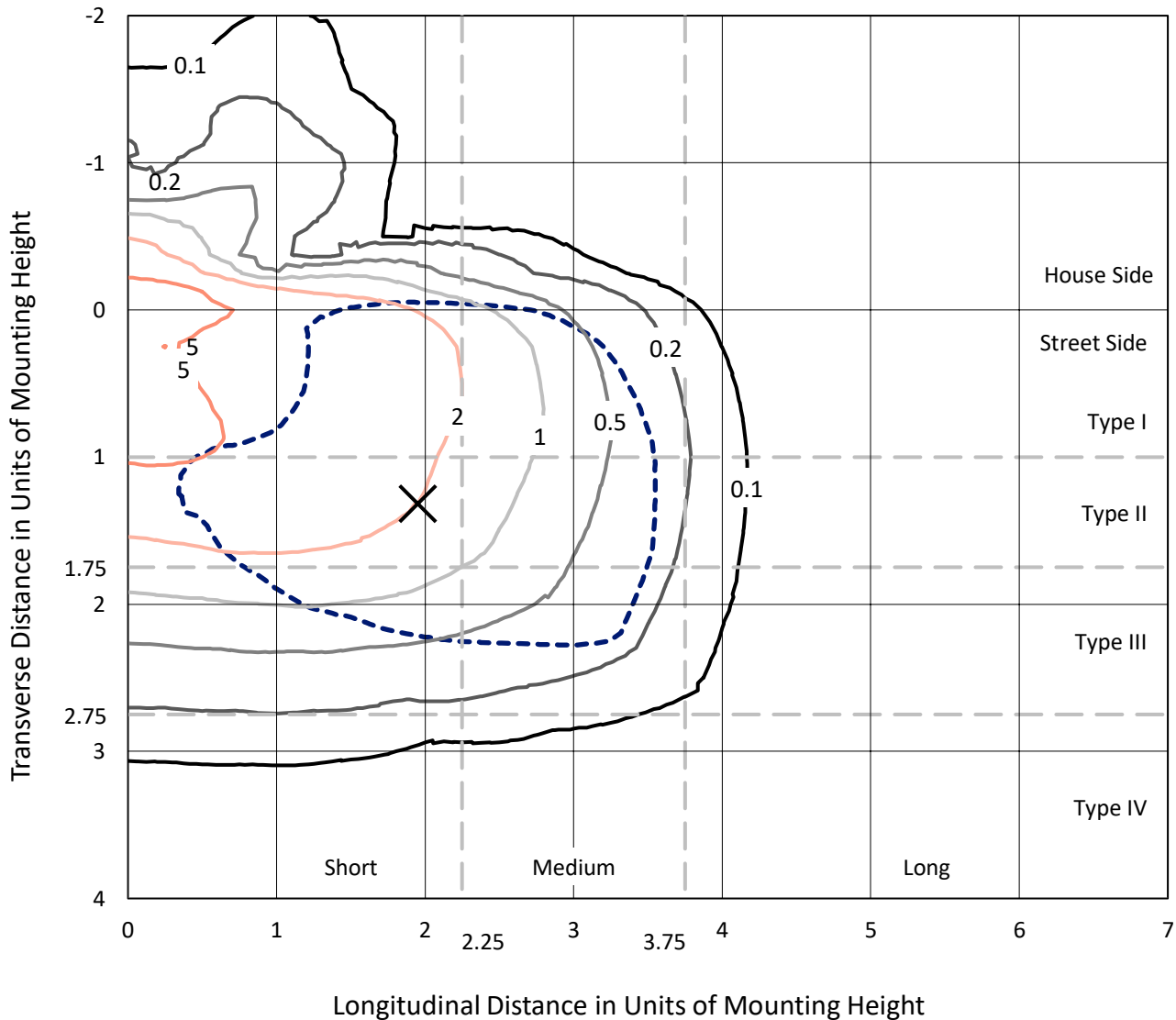
Lumens per Lamp: N/A
Luminaire Lumens: 26738.1 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 247.8
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

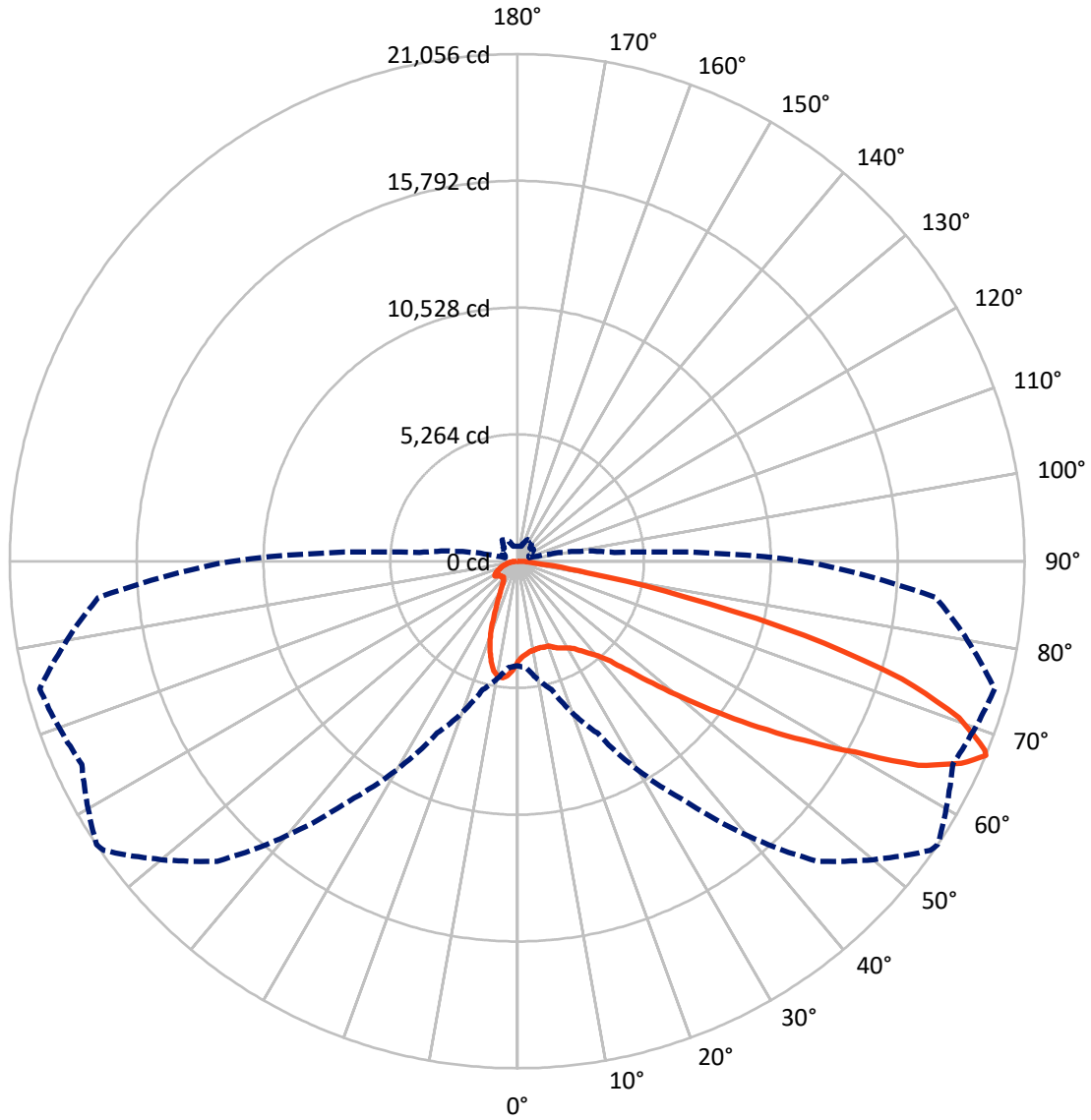
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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	4232.9	0.0	4232.9
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	22505.2	0.0	22505.2
	% Fixture	84.2	0.0	84.2
Total	Lumens	26738.1	0.0	26738.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	400.8	1.5
10°-20°	1093.4	4.1
20°-30°	1714.8	6.4
30°-40°	2447.9	9.2
40°-50°	3694.6	13.8
50°-60°	5881.2	22.0
60°-70°	7518.7	28.1
70°-80°	3665.9	13.7
80°-90°	320.7	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°	26738.1	100.0
0°-180°	26738.1	100.0

Coefficient of Utilization

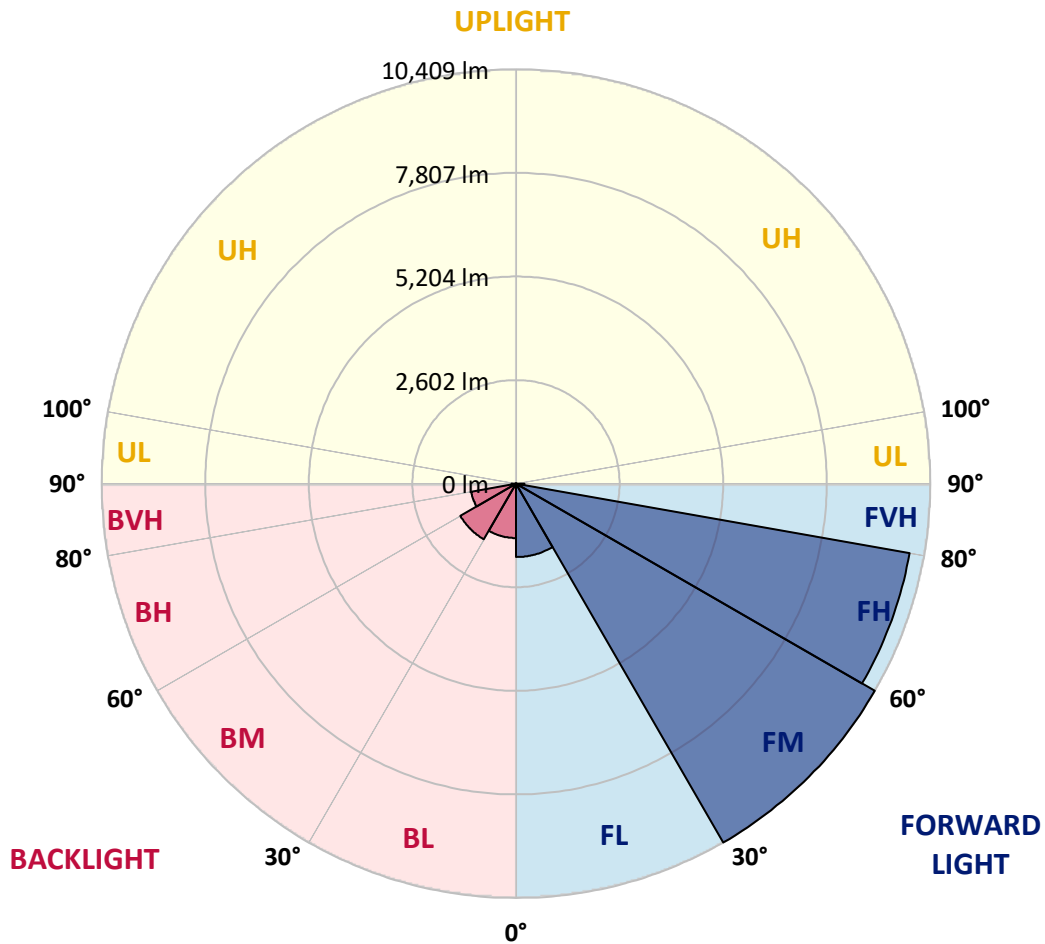


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1842.6	6.9			
FM (30°-60°)	10408.9	38.9			
FH (60°-80°)	10040.8	37.6			G4/12000
FVH (80°-90°)	213.0	0.8			G2/225
BL (0°-30°)	1366.5	5.1	B3/2500		
BM (30°-60°)	1614.9	6.0	B2/2500		
BH (60°-80°)	1143.8	4.3	B3/2500		G3/2500
BVH (80°-90°)	107.7	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°	4160.4	4160.4	4160.4	4160.4	4160.4	4160.4	4160.4	4160.4	4160.4	4160.4
2.5°	3821.8	3806.1	3824.9	3806.1	3890.8	3940.9	3956.6	3978.5	4056.9	4132.2
5°	3661.9	3592.9	3668.2	3693.2	3699.5	3784.2	3871.9	3887.6	3928.4	4050.7
7.5°	3395.4	3473.8	3445.6	3520.8	3599.2	3683.8	3828.1	3787.3	3937.8	4053.8
10°	3339.0	3345.2	3376.6	3404.8	3473.8	3583.5	3784.2	3759.1	3912.7	4160.4
12.5°	3395.4	3395.4	3386.0	3364.0	3442.4	3549.0	3708.9	3721.5	3962.9	4191.7
15°	3592.9	3630.5	3530.2	3545.9	3514.5	3549.0	3690.1	3718.3	3981.7	4216.8
17.5°	4075.7	4063.2	3944.1	3777.9	3639.9	3618.0	3715.2	3746.5	3962.9	4288.9
20°	4546.0	4520.9	4314.0	4141.6	3868.8	3740.3	3755.9	3759.1	3994.2	4336.0
22.5°	5069.6	5135.4	4909.7	4558.5	4220.0	3900.2	3837.5	3887.6	4066.3	4361.0
25°	5891.0	5749.9	5555.5	5094.7	4549.1	4147.8	3972.3	3997.4	4135.3	4423.7
27.5°	6483.5	6427.1	6123.0	5749.9	5010.0	4342.2	4044.4	4091.4	4260.7	4420.6
30°	7054.2	7054.2	6869.2	6311.1	5496.0	4668.3	4198.0	4176.1	4201.1	4414.3
32.5°	7721.9	7631.0	7364.5	6994.6	6107.3	4966.1	4320.3	4326.5	4326.5	4530.3
35°	8073.1	8220.4	8041.7	7439.8	6574.5	5461.5	4615.0	4568.0	4533.5	4658.9
37.5°	8587.3	8675.0	8486.9	8132.7	7154.5	5862.8	4875.2	4837.6	4636.9	4759.2
40°	8897.6	8882.0	8875.7	8712.7	7922.6	6336.2	5257.7	5160.5	4890.9	5113.5
42.5°	9073.2	9041.9	9427.5	9327.2	8646.8	7032.2	5737.4	5684.1	5386.2	5743.6
45°	9270.7	9502.7	9819.4	10101.5	9490.2	8010.4	6549.4	6474.1	6207.7	6662.3
47.5°	9443.2	9728.5	10132.9	10433.9	10252.0	9073.2	7552.6	7571.5	7395.9	7863.0
50°	9731.6	9759.8	10308.5	10916.7	11057.8	10054.5	8900.8	8869.4	8791.0	9446.3
52.5°	9643.8	9728.5	10421.3	11198.9	11430.9	11092.3	10349.2	10443.3	10339.8	11164.4
55°	8214.2	8468.1	10352.4	11496.7	12315.0	12264.8	12211.5	12148.8	12142.5	13095.6
57.5°	7565.2	7772.1	9120.2	11825.9	13261.8	13631.8	13976.6	14045.6	14042.5	15193.1
60°	7138.8	7352.0	8621.7	11647.2	14067.5	15421.9	16083.5	16092.9	16074.1	17434.7
62.5°	6304.8	6511.8	7759.6	10669.0	14290.1	17074.2	18547.7	18670.0	17807.8	19366.0
65°	5301.6	5470.9	6571.3	9173.5	13697.6	18124.5	20400.6	20256.4	19268.8	20469.6
67°	4336.0	4448.8	5521.0	7875.6	12148.8	17619.7	20936.7	21055.9	19942.9	20516.6
67.5°	4060.1	4163.5	5176.2	7433.5	11559.4	17237.2	20955.5	20936.7	19955.4	20526.0
70°	2818.5	2862.4	3527.1	5113.5	8515.1	14562.9	19425.6	19469.5	19118.3	19413.0
72.5°	1868.6	1934.4	2357.7	3223.0	5019.4	10596.9	16237.1	16707.4	16484.8	15917.3
75°	1203.9	1241.5	1542.5	1918.7	2470.5	6035.2	11995.2	12308.7	11797.7	9844.5
77.5°	674.1	714.8	931.1	1166.3	1203.9	2511.3	6737.5	7126.3	6038.4	4182.3
80°	420.1	473.4	702.3	692.9	573.7	921.7	2777.8	2975.3	2414.1	1439.0
82.5°	316.7	357.4	542.4	486.0	322.9	410.7	1040.9	1116.1	884.1	554.9
85°	216.3	272.8	391.9	301.0	169.3	197.5	413.8	445.2	404.4	269.6
87.5°	78.4	116.0	203.8	150.5	75.2	59.6	134.8	150.5	144.2	122.3
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°
4160.4	0°	4160.4	4160.4	4160.4	4160.4	4160.4	4160.4	4160.4	4160.4	4160.4	4160.4
4198.0	2.5°	4257.6	4301.5	4323.4	4452.0	4505.3	4495.8	4508.4	4527.2	4546.0	4571.1
4251.3	5°	4292.1	4426.9	4499.0	4649.5	4749.8	4705.9	4762.3	4746.7	4724.7	4721.6
4348.5	7.5°	4404.9	4577.4	4793.7	4834.4	4878.3	4768.6	4674.6	4546.0	4514.7	4404.9
4430.0	10°	4605.6	4746.7	5010.0	5025.7	4831.3	4549.1	4339.1	4072.6	4069.5	3909.6
4555.4	12.5°	4796.8	4956.7	5169.9	5079.0	4615.0	4229.4	3887.6	3596.0	3473.8	3392.3
4630.7	15°	4916.0	5179.3	5292.2	4900.3	4235.6	3715.2	3273.1	2959.6	2834.2	2774.6
4724.7	17.5°	5025.7	5392.5	5342.3	4586.8	3768.5	3185.3	2658.6	2385.9	2351.4	2307.5
4875.2	20°	5176.2	5470.9	5163.6	4179.2	3238.6	2501.9	2166.4	2034.7	2066.1	2084.9
4890.9	22.5°	5317.3	5511.6	4937.9	3734.0	2558.3	1981.4	1815.3	1843.5	1890.5	1953.2
4928.5	25°	5380.0	5577.5	4633.8	3119.5	1946.9	1667.9	1630.3	1677.3	1755.7	1758.8
4981.8	27.5°	5420.7	5530.5	4267.0	2520.7	1539.4	1457.9	1514.3	1548.8	1558.2	1595.8
5094.7	30°	5492.8	5433.3	3803.0	1802.7	1291.7	1294.8	1366.9	1366.9	1366.9	1395.2
5207.5	32.5°	5618.2	5367.4	3260.6	1316.8	1113.0	1213.3	1194.5	1188.2	1175.7	1141.2
5351.7	35°	5696.6	5188.7	2574.0	975.0	1000.1	1113.0	1106.7	1009.5	846.5	765.0
5718.6	37.5°	5859.6	5097.8	1893.6	752.4	934.3	1062.8	1028.3	793.2	614.5	536.1
6173.2	40°	6210.8	5038.2	1310.5	658.4	890.4	1037.7	918.6	677.2	470.3	332.3
6875.4	42.5°	6640.3	5041.4	890.4	620.8	893.5	1091.0	884.1	580.0	332.3	266.5
7812.9	45°	7217.2	4994.3	611.4	620.8	950.0	1178.8	906.1	526.7	322.9	338.6
8988.6	47.5°	7837.9	5035.1	454.6	564.3	959.4	1182.0	827.7	517.3	310.4	391.9
10267.7	50°	8562.2	5075.9	376.2	520.4	962.5	1144.3	761.8	504.8	322.9	413.8
11735.0	52.5°	9308.3	5204.4	319.8	492.2	1000.1	1128.7	761.8	523.6	322.9	360.5
13603.5	55°	10421.3	5533.6	460.9	614.5	1138.1	1232.1	937.4	733.6	451.5	464.0
15393.7	57.5°	11650.3	5872.2	514.2	645.8	1169.4	1109.9	1009.5	808.9	476.5	479.7
16785.7	60°	12459.2	5884.7	511.0	630.2	1094.2	959.4	987.6	852.8	486.0	410.7
17647.9	62.5°	12782.1	5502.2	533.0	630.2	1018.9	896.7	1012.7	918.6	501.6	514.2
17892.5	65°	12415.3	4712.2	514.2	564.3	896.7	802.6	1018.9	931.1	548.7	517.3
17453.5	67°	11841.6	4060.1	523.6	536.1	834.0	761.8	1072.2	978.2	636.4	620.8
17224.7	67.5°	11678.5	3887.6	520.4	520.4	812.0	749.3	1084.8	978.2	649.0	642.7
15202.5	70°	10292.8	3150.9	533.0	514.2	718.0	711.7	1153.7	1031.5	746.2	752.4
11167.5	72.5°	7834.8	2389.0	529.8	514.2	623.9	680.3	1163.2	1066.0	812.0	752.4
6254.7	75°	4452.0	1429.6	467.1	448.3	492.2	592.5	1087.9	1015.8	790.1	674.1
2498.7	77.5°	1840.3	736.8	429.5	404.4	407.6	482.8	906.1	946.8	752.4	573.7
834.0	80°	686.6	442.1	344.9	322.9	313.5	354.3	645.8	755.6	642.7	470.3
366.8	82.5°	357.4	275.9	235.1	235.1	213.2	225.7	348.0	501.6	486.0	322.9
147.4	85°	181.8	156.8	134.8	131.7	119.1	106.6	175.6	297.8	279.0	178.7
65.8	87.5°	97.2	87.8	56.4	53.3	43.9	28.2	31.4	59.6	97.2	78.4
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>
4160.4
4596.2
4749.8
4442.5
3903.3
3373.5
2762.1
2329.4
2062.9
1918.7
1790.2
1630.3
1426.5
1122.4
802.6
533.0
322.9
260.2
344.9
435.8
479.7
370.0
489.1
464.0
423.2
520.4
507.9
611.4
630.2
696.0
667.8
602.0
542.4
429.5
253.9
147.4
56.4
0.0

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