

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: P477672

Luminaire Tested: **IFLD-M-SA4D-727-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477672
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-727-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (64) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

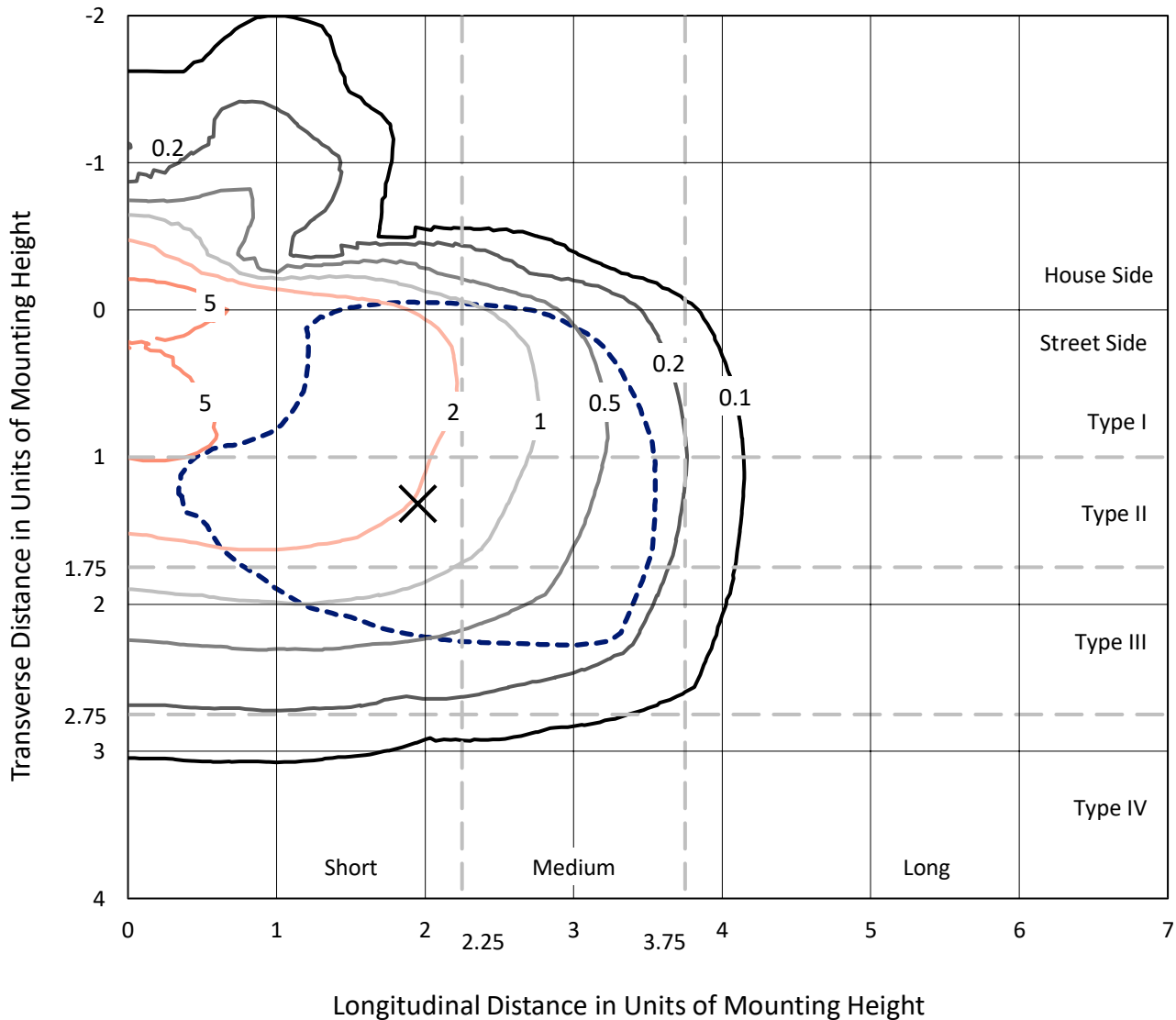
Lumens per Lamp: N/A
Luminaire Lumens: 25699.6 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 249.7
Input Voltage (V): 120
Input Current (A_{in}): 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

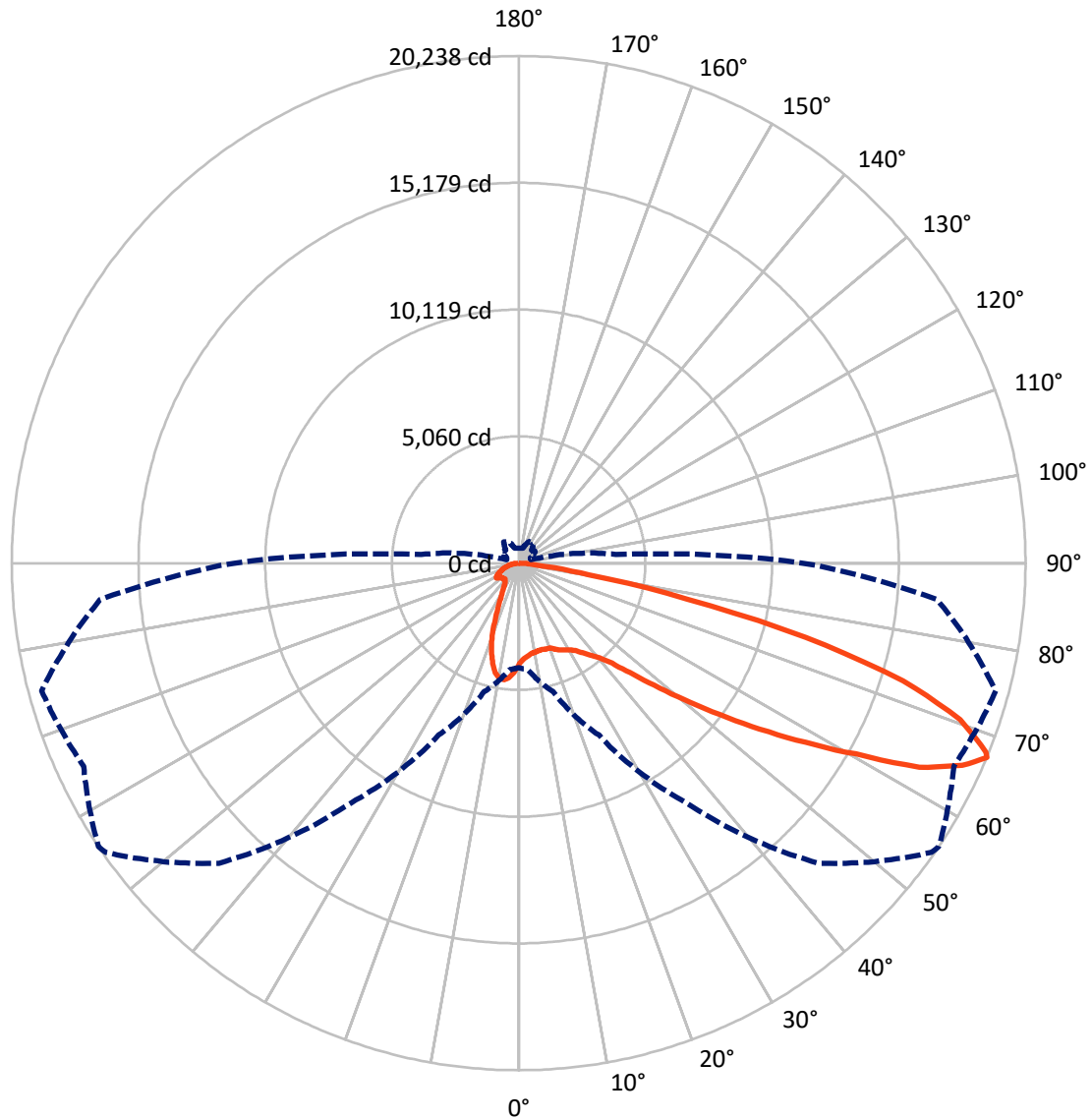
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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
House Side	Lumens	4068.5	0.0	4068.5
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	21631.1	0.0	21631.1
	% Fixture	84.2	0.0	84.2
Total	Lumens	25699.6	0.0	25699.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	385.2	1.5
10°-20°	1051.0	4.1
20°-30°	1648.2	6.4
30°-40°	2352.9	9.2
40°-50°	3551.1	13.8
50°-60°	5652.8	22.0
60°-70°	7226.7	28.1
70°-80°	3523.5	13.7
80°-90°	308.2	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°	25699.6	100.0
0°-180°	25699.6	100.0

Coefficient of Utilization

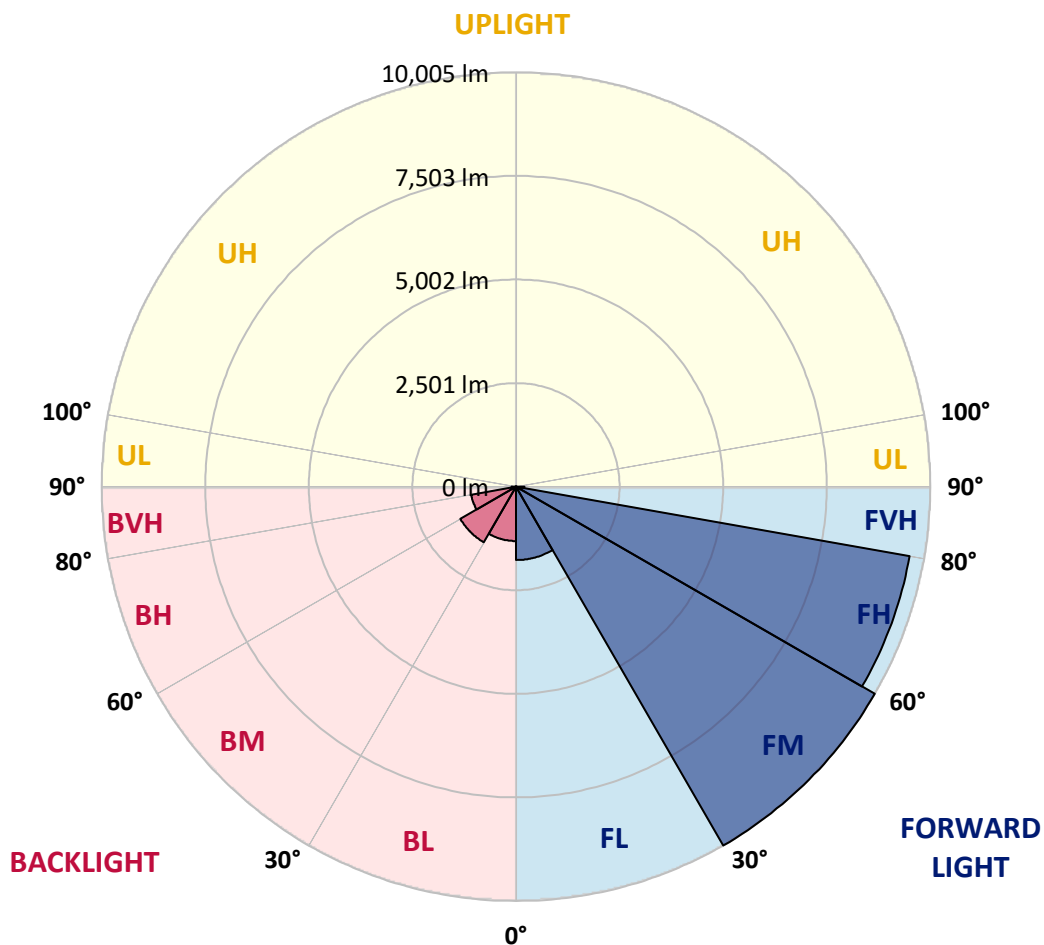


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1771.0	6.9			
FM (30°-60°)	10004.6	38.9			
FH (60°-80°)	9650.8	37.6			G4/12000
FVH (80°-90°)	204.7	0.8			G2/225
BL (0°-30°)	1313.4	5.1	B3/2500		
BM (30°-60°)	1552.2	6.0	B2/2500		
BH (60°-80°)	1099.4	4.3	B3/2500		G3/2500
BVH (80°-90°)	103.5	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-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	3998.8	3998.8	3998.8	3998.8	3998.8	3998.8	3998.8	3998.8	3998.8	3998.8
2.5°	3673.3	3658.3	3676.4	3658.3	3739.6	3787.8	3802.9	3824.0	3899.3	3971.7
5°	3519.7	3453.4	3525.7	3549.8	3555.8	3637.2	3721.6	3736.6	3775.8	3893.3
7.5°	3263.5	3338.9	3311.7	3384.1	3459.4	3540.8	3679.4	3640.2	3784.8	3896.3
10°	3209.3	3215.3	3245.4	3272.6	3338.9	3444.3	3637.2	3613.1	3760.7	3998.8
12.5°	3263.5	3263.5	3254.5	3233.4	3308.7	3411.2	3564.9	3576.9	3808.9	4028.9
15°	3453.4	3489.5	3393.1	3408.2	3378.0	3411.2	3546.8	3573.9	3827.0	4053.0
17.5°	3917.4	3905.4	3790.9	3631.2	3498.6	3477.5	3570.9	3601.0	3808.9	4122.3
20°	4369.4	4345.3	4146.4	3980.7	3718.5	3595.0	3610.1	3613.1	3839.1	4167.5
22.5°	4872.7	4936.0	4719.0	4381.5	4056.0	3748.7	3688.4	3736.6	3908.4	4191.6
25°	5662.2	5526.6	5339.8	4896.8	4372.4	3986.7	3818.0	3842.1	3974.7	4251.9
27.5°	6231.7	6177.5	5885.2	5526.6	4815.4	4173.6	3887.3	3932.5	4095.2	4248.9
30°	6780.2	6780.2	6602.4	6066.0	5282.5	4487.0	4034.9	4013.9	4038.0	4242.9
32.5°	7422.0	7334.6	7078.5	6722.9	5870.1	4773.2	4152.5	4158.5	4158.5	4354.4
35°	7759.5	7901.1	7729.4	7150.8	6319.1	5249.4	4435.7	4390.5	4357.4	4477.9
37.5°	8253.7	8338.1	8157.3	7816.8	6876.6	5635.1	4685.8	4649.7	4456.8	4574.3
40°	8552.0	8537.0	8530.9	8374.3	7614.9	6090.1	5053.5	4960.1	4700.9	4914.9
42.5°	8720.8	8690.7	9061.3	8964.9	8311.0	6759.1	5514.5	5463.3	5177.0	5520.6
45°	8910.6	9133.6	9438.0	9709.2	9121.6	7699.2	6295.0	6222.7	5966.5	6403.5
47.5°	9076.4	9350.6	9739.3	10028.6	9853.8	8720.8	7259.3	7277.4	7108.6	7557.6
50°	9353.6	9380.7	9908.1	10492.7	10628.3	9664.0	8555.1	8524.9	8449.6	9079.4
52.5°	9269.2	9350.6	10016.6	10763.9	10986.9	10661.4	9947.2	10037.6	9938.2	10730.7
55°	7895.1	8139.2	9950.3	11050.2	11836.7	11788.4	11737.2	11676.9	11670.9	12587.0
57.5°	7271.3	7470.2	8766.0	11366.6	12746.7	13102.3	13433.8	13500.1	13497.0	14603.0
60°	6861.5	7066.4	8286.9	11194.8	13521.1	14822.9	15458.8	15467.8	15449.7	16757.5
62.5°	6060.0	6258.8	7458.2	10254.6	13735.1	16411.0	17827.3	17944.8	17116.1	18613.8
65°	5095.7	5258.4	6316.1	8817.2	13165.6	17420.5	19608.2	19469.6	18520.4	19674.5
67°	4167.5	4276.0	5306.6	7569.7	11676.9	16935.3	20123.5	20238.0	19168.3	19719.7
67.5°	3902.4	4001.8	4975.1	7144.8	11110.4	16567.7	20141.6	20123.5	19180.3	19728.8
70°	2709.1	2751.2	3390.1	4914.9	8184.4	13997.3	18671.1	18713.2	18375.7	18659.0
72.5°	1796.0	1859.3	2266.1	3097.8	4824.5	10185.3	15606.4	16058.4	15844.5	15299.1
75°	1157.1	1193.3	1482.6	1844.2	2374.6	5800.8	11529.3	11830.6	11339.4	9462.1
77.5°	647.9	687.1	895.0	1121.0	1157.1	2413.7	6475.8	6849.5	5803.8	4019.9
80°	403.8	455.0	675.0	666.0	551.5	885.9	2669.9	2859.7	2320.3	1383.2
82.5°	304.4	343.5	521.3	467.1	310.4	394.8	1000.5	1072.8	849.8	533.4
85°	207.9	262.2	376.7	289.3	162.7	189.8	397.8	427.9	388.7	259.2
87.5°	75.3	111.5	195.9	144.6	72.3	57.3	129.6	144.6	138.6	117.5
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°
3998.8	0°	3998.8	3998.8	3998.8	3998.8	3998.8	3998.8	3998.8	3998.8	3998.8	3998.8
4034.9	2.5°	4092.2	4134.4	4155.5	4279.0	4330.3	4321.2	4333.3	4351.4	4369.4	4393.5
4086.2	5°	4125.4	4254.9	4324.2	4468.9	4565.3	4523.1	4577.4	4562.3	4541.2	4538.2
4179.6	7.5°	4233.8	4399.6	4607.5	4646.7	4688.9	4583.4	4493.0	4369.4	4339.3	4233.8
4257.9	10°	4426.7	4562.3	4815.4	4830.5	4643.7	4372.4	4170.6	3914.4	3911.4	3757.7
4378.5	12.5°	4610.5	4764.2	4969.1	4881.7	4435.7	4065.1	3736.6	3456.4	3338.9	3260.5
4450.8	15°	4725.0	4978.1	5086.6	4710.0	4071.1	3570.9	3146.0	2844.7	2724.1	2666.9
4541.2	17.5°	4830.5	5183.1	5134.8	4408.6	3622.1	3061.6	2555.4	2293.2	2260.1	2217.9
4685.8	20°	4975.1	5258.4	4963.1	4016.9	3112.8	2404.7	2082.3	1955.7	1985.8	2003.9
4700.9	22.5°	5110.7	5297.6	4746.1	3589.0	2458.9	1904.5	1744.8	1771.9	1817.1	1877.4
4737.1	25°	5171.0	5360.8	4453.8	2998.3	1871.3	1603.1	1567.0	1612.2	1687.5	1690.5
4788.3	27.5°	5210.2	5315.6	4101.2	2422.8	1479.6	1401.2	1455.5	1488.6	1497.7	1533.8
4896.8	30°	5279.5	5222.2	3655.3	1732.7	1241.5	1244.5	1313.8	1313.8	1313.8	1341.0
5005.3	32.5°	5400.0	5158.9	3133.9	1265.6	1069.8	1166.2	1148.1	1142.1	1130.0	1096.9
5143.9	35°	5475.4	4987.2	2474.0	937.2	961.3	1069.8	1063.7	970.3	813.6	735.3
5496.4	37.5°	5632.1	4899.8	1820.1	723.2	898.0	1021.5	988.4	762.4	590.6	515.3
5933.4	40°	5969.6	4842.5	1259.6	632.8	855.8	997.4	882.9	650.9	452.0	319.4
6608.4	42.5°	6382.4	4845.6	855.8	596.7	858.8	1048.7	849.8	557.5	319.4	256.1
7509.4	45°	6936.9	4800.4	587.6	596.7	913.1	1133.0	870.9	506.3	310.4	325.4
8639.4	47.5°	7533.5	4839.5	436.9	542.4	922.1	1136.1	795.5	497.2	298.3	376.7
9868.9	50°	8229.6	4878.7	361.6	500.2	925.1	1099.9	732.3	485.2	310.4	397.8
11279.2	52.5°	8946.8	5002.3	307.4	473.1	961.3	1084.8	732.3	503.2	310.4	346.5
13075.2	55°	10016.6	5318.7	443.0	590.6	1093.9	1184.3	901.0	705.1	433.9	446.0
14795.8	57.5°	11197.8	5644.1	494.2	620.8	1124.0	1066.7	970.3	777.5	458.0	461.1
16133.8	60°	11975.3	5656.2	491.2	605.7	1051.7	922.1	949.2	819.6	467.1	394.8
16962.5	62.5°	12285.6	5288.5	512.3	605.7	979.4	861.8	973.3	882.9	482.1	494.2
17197.5	65°	11933.1	4529.1	494.2	542.4	861.8	771.4	979.4	895.0	527.3	497.2
16775.6	67°	11381.6	3902.4	503.2	515.3	801.6	732.3	1030.6	940.2	611.7	596.7
16555.6	67.5°	11224.9	3736.6	500.2	500.2	780.5	720.2	1042.6	940.2	623.8	617.7
14612.0	70°	9893.0	3028.5	512.3	494.2	690.1	684.0	1108.9	991.4	717.2	723.2
10733.7	72.5°	7530.5	2296.2	509.3	494.2	599.7	653.9	1118.0	1024.6	780.5	723.2
6011.7	75°	4279.0	1374.1	449.0	430.9	473.1	569.5	1045.7	976.3	759.4	647.9
2401.7	77.5°	1768.9	708.2	412.8	388.7	391.7	464.1	870.9	910.0	723.2	551.5
801.6	80°	659.9	424.9	331.5	310.4	301.3	340.5	620.8	726.2	617.7	452.0
352.6	82.5°	343.5	265.2	226.0	226.0	204.9	217.0	334.5	482.1	467.1	310.4
141.6	85°	174.8	150.7	129.6	126.6	114.5	102.5	168.8	286.3	268.2	171.8
63.3	87.5°	93.4	84.4	54.2	51.2	42.2	27.1	30.1	57.3	93.4	75.3
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>
3998.8
4417.7
4565.3
4270.0
3751.7
3242.4
2654.8
2239.0
1982.8
1844.2
1720.7
1567.0
1371.1
1078.8
771.4
512.3
310.4
250.1
331.5
418.9
461.1
355.6
470.1
446.0
406.8
500.2
488.2
587.6
605.7
669.0
641.9
578.6
521.3
412.8
244.1
141.6
54.2
0.0

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