

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: P477711

Luminaire Tested: **IFLD-M-SA4D-730-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477711
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-730-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

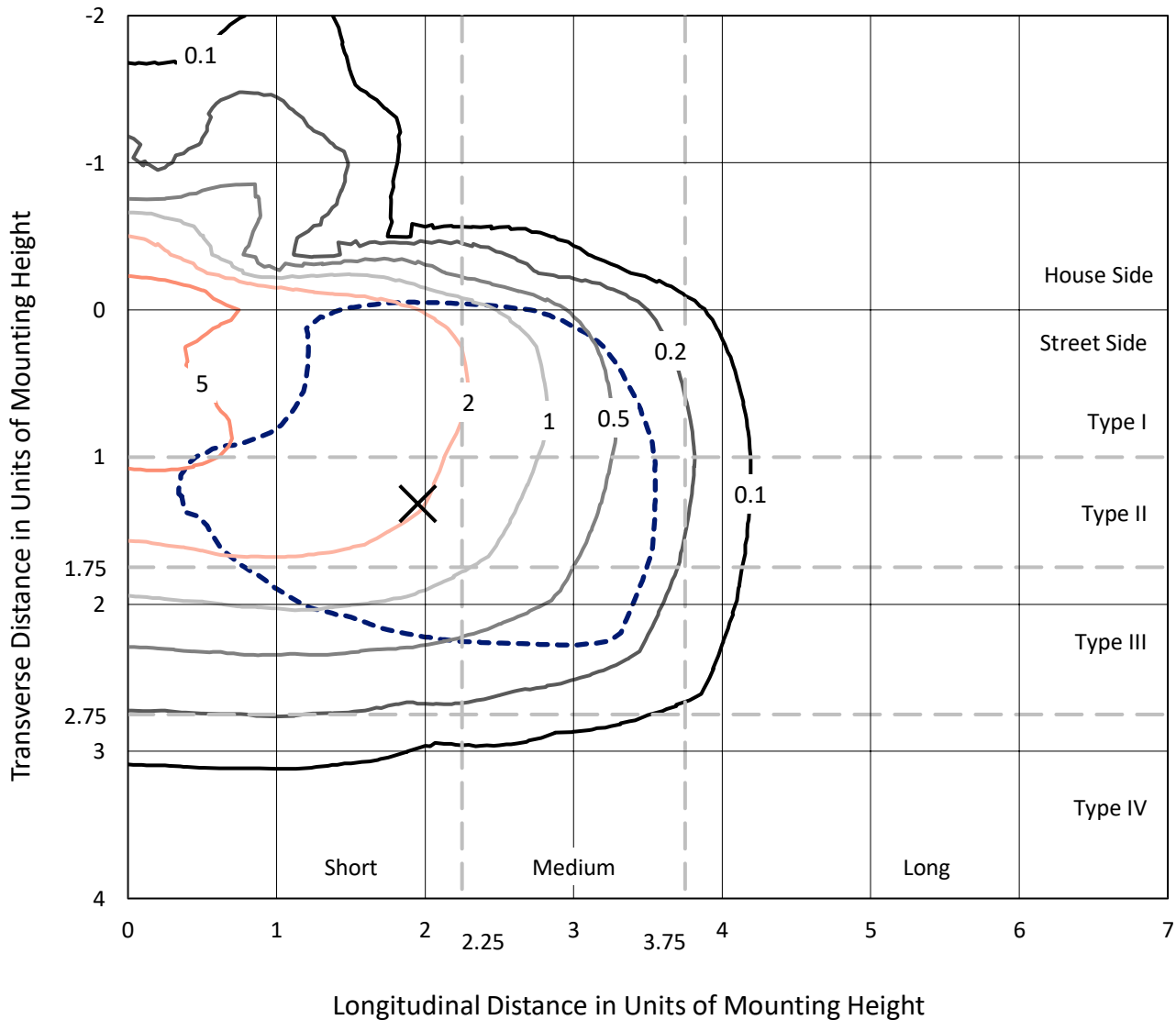
Lumens per Lamp: N/A
Luminaire Lumens: 27982.8 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

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

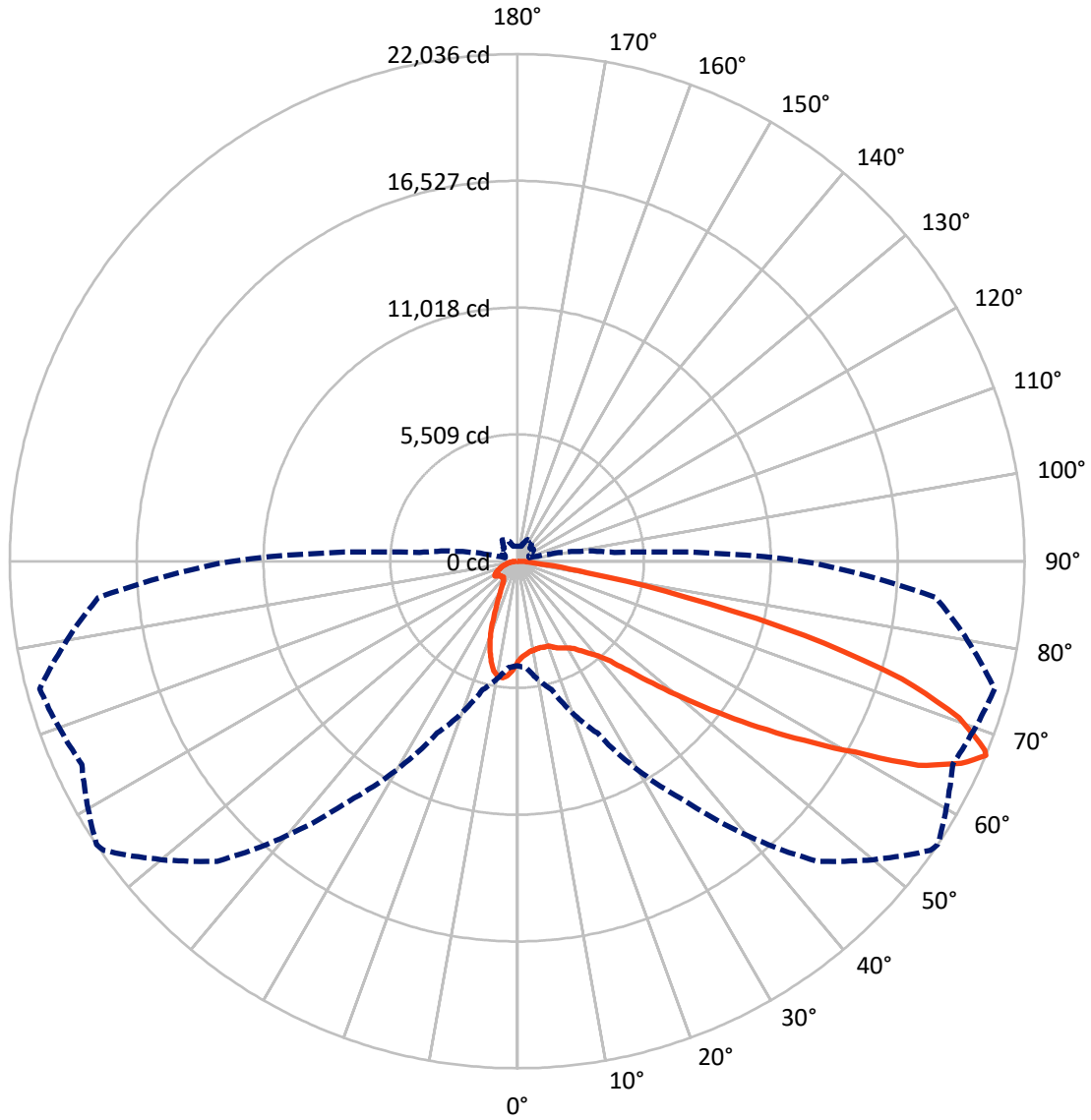
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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	4430.0	0.0	4430.0
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	23552.9	0.0	23552.9
	% Fixture	84.2	0.0	84.2
Total	Lumens	27982.8	0.0	27982.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	419.5	1.5
10°-20°	1144.3	4.1
20°-30°	1794.7	6.4
30°-40°	2561.9	9.2
40°-50°	3866.6	13.8
50°-60°	6155.0	22.0
60°-70°	7868.7	28.1
70°-80°	3836.5	13.7
80°-90°	335.6	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°	27982.8	100.0
0°-180°	27982.8	100.0

Coefficient of Utilization

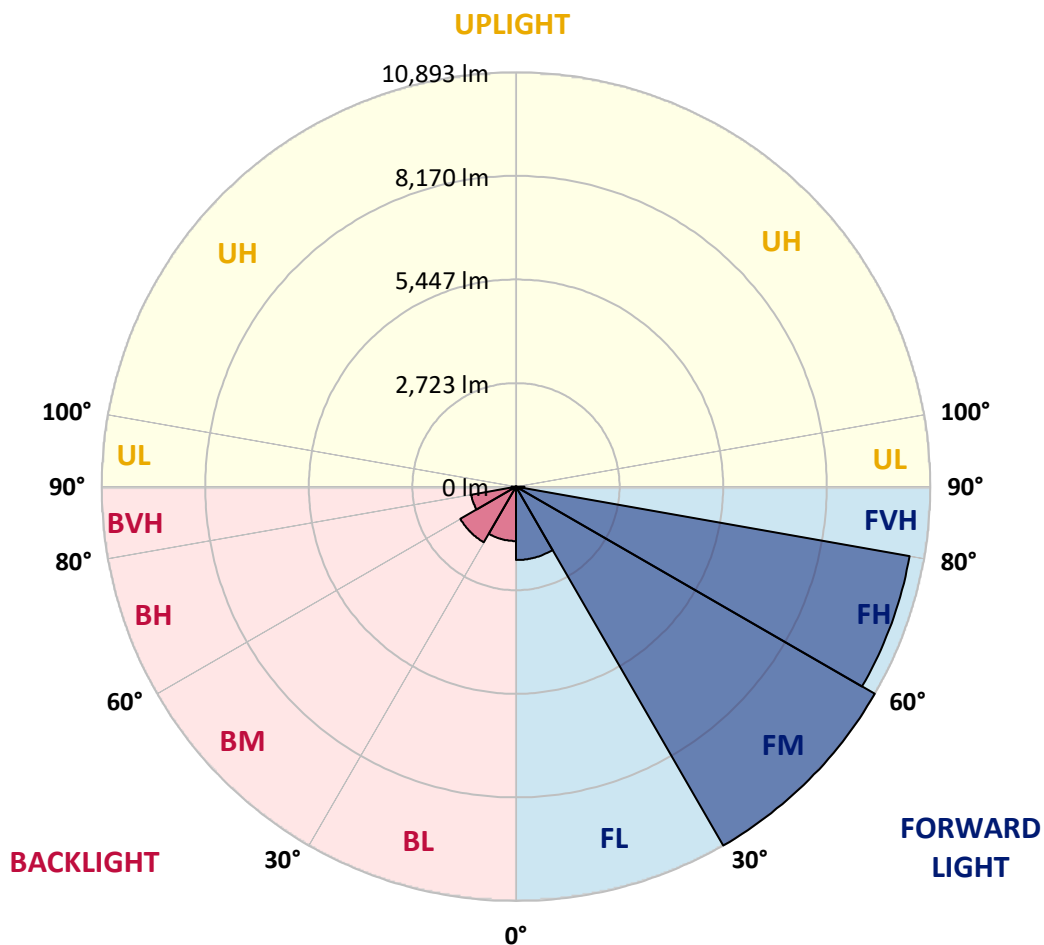


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1928.3	6.9			
FM (30°-60°)	10893.5	38.9			
FH (60°-80°)	10508.2	37.6			G4/12000
FVH (80°-90°)	222.9	0.8			G2/225
BL (0°-30°)	1430.1	5.1	B3/2500		
BM (30°-60°)	1690.1	6.0	B2/2500		
BH (60°-80°)	1197.1	4.3	B3/2500		G3/2500
BVH (80°-90°)	112.7	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°	4354.1	4354.1	4354.1	4354.1	4354.1	4354.1	4354.1	4354.1	4354.1	4354.1
2.5°	3999.7	3983.3	4003.0	3983.3	4071.9	4124.4	4140.8	4163.7	4245.8	4324.5
5°	3832.4	3760.2	3838.9	3865.2	3871.7	3960.3	4052.2	4068.6	4111.3	4239.2
7.5°	3553.5	3635.5	3606.0	3684.7	3766.7	3855.3	4006.3	3963.6	4121.1	4242.5
10°	3494.4	3501.0	3533.8	3563.3	3635.5	3750.3	3960.3	3934.1	4094.8	4354.1
12.5°	3553.5	3553.5	3543.6	3520.6	3602.7	3714.2	3881.6	3894.7	4147.3	4386.9
15°	3760.2	3799.5	3694.5	3711.0	3678.1	3714.2	3861.9	3891.4	4167.0	4413.1
17.5°	4265.5	4252.3	4127.7	3953.8	3809.4	3786.4	3888.1	3920.9	4147.3	4488.6
20°	4757.6	4731.4	4514.8	4334.4	4048.9	3914.4	3930.8	3934.1	4180.2	4537.8
22.5°	5305.6	5374.5	5138.2	4770.8	4416.4	4081.7	4016.1	4068.6	4255.6	4564.0
25°	6165.2	6017.6	5814.2	5331.8	4760.9	4340.9	4157.2	4183.4	4327.8	4629.7
27.5°	6785.4	6726.3	6408.0	6017.6	5243.2	4544.4	4232.7	4281.9	4459.1	4626.4
30°	7382.5	7382.5	7188.9	6604.9	5751.8	4885.6	4393.4	4370.5	4396.7	4619.8
32.5°	8081.4	7986.3	7707.4	7320.2	6391.6	5197.3	4521.4	4528.0	4528.0	4741.2
35°	8448.9	8603.1	8416.1	7786.1	6880.5	5715.7	4829.8	4780.6	4744.5	4875.8
37.5°	8987.0	9078.9	8882.0	8511.2	7487.5	6135.7	5102.2	5062.8	4852.8	4980.7
40°	9311.8	9295.4	9288.9	9118.3	8291.4	6631.2	5502.4	5400.7	5118.6	5351.5
42.5°	9495.6	9462.8	9866.3	9761.4	9049.3	7359.6	6004.5	5948.7	5637.0	6011.0
45°	9702.3	9945.1	10276.5	10571.8	9932.0	8383.3	6854.3	6775.5	6496.6	6972.4
47.5°	9882.8	10181.3	10604.6	10919.6	10729.3	9495.6	7904.2	7923.9	7740.2	8229.1
50°	10184.6	10214.1	10788.3	11424.9	11572.5	10522.6	9315.1	9282.3	9200.3	9886.0
52.5°	10092.7	10181.3	10906.5	11720.2	11963.0	11608.6	10831.0	10929.4	10821.2	11684.1
55°	8596.6	8862.3	10834.3	12031.9	12888.3	12835.8	12780.0	12714.4	12707.8	13705.3
57.5°	7917.4	8133.9	9544.8	12376.4	13879.2	14266.3	14627.3	14699.4	14696.2	15900.3
60°	7471.1	7694.2	9023.1	12189.4	14722.4	16139.9	16832.2	16842.0	16822.3	18246.3
62.5°	6598.3	6814.9	8120.8	11165.7	14955.4	17869.0	19411.1	19539.1	18636.8	20267.5
65°	5548.4	5725.6	6877.2	9600.6	14335.2	18968.2	21350.3	21199.4	20165.8	21422.5
67°	4537.8	4655.9	5778.1	8242.2	12714.4	18439.9	21911.4	22036.0	20871.2	21471.7
67.5°	4249.1	4357.3	5417.1	7779.6	12097.5	18039.6	21931.0	21911.4	20884.4	21481.5
70°	2949.7	2995.7	3691.3	5351.5	8911.5	15240.8	20329.9	20375.8	20008.3	20316.7
72.5°	1955.6	2024.5	2467.4	3373.0	5253.1	11090.2	16993.0	17485.1	17252.2	16658.3
75°	1260.0	1299.3	1614.3	2008.0	2585.5	6316.2	12553.6	12881.7	12346.9	10302.7
77.5°	705.4	748.1	974.5	1220.6	1260.0	2628.2	7051.1	7458.0	6319.4	4377.0
80°	439.7	495.5	735.0	725.1	600.4	964.7	2907.1	3113.8	2526.5	1506.0
82.5°	331.4	374.0	567.6	508.6	338.0	429.8	1089.3	1168.1	925.3	580.8
85°	226.4	285.5	410.1	315.0	177.2	206.7	433.1	465.9	423.3	282.2
87.5°	82.0	121.4	213.3	157.5	78.7	62.3	141.1	157.5	150.9	128.0
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°
4354.1	0°	4354.1	4354.1	4354.1	4354.1	4354.1	4354.1	4354.1	4354.1	4354.1	4354.1
4393.4	2.5°	4455.8	4501.7	4524.7	4659.2	4715.0	4705.1	4718.3	4737.9	4757.6	4783.9
4449.2	5°	4491.9	4633.0	4708.4	4865.9	4970.9	4925.0	4984.0	4967.6	4944.7	4941.4
4550.9	7.5°	4610.0	4790.4	5016.8	5059.5	5105.4	4990.6	4892.2	4757.6	4724.8	4610.0
4636.2	10°	4820.0	4967.6	5243.2	5259.6	5056.2	4760.9	4541.1	4262.2	4258.9	4091.6
4767.5	12.5°	5020.1	5187.5	5410.6	5315.4	4829.8	4426.2	4068.6	3763.5	3635.5	3550.2
4846.2	15°	5144.8	5420.4	5538.5	5128.4	4432.8	3888.1	3425.5	3097.4	2966.1	2903.8
4944.7	17.5°	5259.6	5643.5	5591.0	4800.3	3943.9	3333.6	2782.4	2496.9	2460.8	2414.9
5102.2	20°	5417.1	5725.6	5404.0	4373.7	3389.4	2618.3	2267.3	2129.5	2162.3	2181.9
5118.6	22.5°	5564.8	5768.2	5167.8	3907.8	2677.4	2073.7	1899.8	1929.3	1978.5	2044.1
5157.9	25°	5630.4	5837.1	4849.5	3264.7	2037.6	1745.6	1706.2	1755.4	1837.4	1840.7
5213.7	27.5°	5673.1	5787.9	4465.6	2638.0	1611.0	1525.7	1584.8	1620.9	1630.7	1670.1
5331.8	30°	5748.5	5686.2	3980.0	1886.6	1351.8	1355.1	1430.6	1430.6	1430.6	1460.1
5450.0	32.5°	5879.8	5617.3	3412.4	1378.1	1164.8	1269.8	1250.1	1243.5	1230.4	1194.3
5600.9	35°	5961.8	5430.3	2693.8	1020.4	1046.7	1164.8	1158.2	1056.5	885.9	800.6
5984.8	37.5°	6132.4	5335.1	1981.8	787.5	977.8	1112.3	1076.2	830.1	643.1	561.1
6460.5	40°	6499.9	5272.8	1371.5	689.0	931.8	1086.1	961.4	708.7	492.2	347.8
7195.5	42.5°	6949.4	5276.1	931.8	649.7	935.1	1141.8	925.3	607.0	347.8	278.9
8176.6	45°	7553.2	5226.8	639.8	649.7	994.2	1233.7	948.2	551.2	338.0	354.4
9407.0	47.5°	8202.8	5269.5	475.8	590.6	1004.0	1237.0	866.2	541.4	324.8	410.1
10745.7	50°	8960.8	5312.1	393.7	544.7	1007.3	1197.6	797.3	528.3	338.0	433.1
12281.3	52.5°	9741.7	5446.7	334.7	515.1	1046.7	1181.2	797.3	547.9	338.0	377.3
14236.8	55°	10906.5	5791.2	482.3	643.1	1191.0	1289.5	981.1	767.8	472.5	485.6
16110.3	57.5°	12192.7	6145.5	538.1	675.9	1223.9	1161.5	1056.5	846.5	498.7	502.0
17567.2	60°	13039.2	6158.7	534.8	659.5	1145.1	1004.0	1033.6	892.5	508.6	429.8
18469.5	62.5°	13377.2	5758.4	557.8	659.5	1066.4	938.4	1059.8	961.4	525.0	538.1
18725.4	65°	12993.3	4931.5	538.1	590.6	938.4	840.0	1066.4	974.5	574.2	541.4
18266.0	67°	12392.8	4249.1	547.9	561.1	872.8	797.3	1122.1	1023.7	666.1	649.7
18026.5	67.5°	12222.2	4068.6	544.7	544.7	849.8	784.2	1135.3	1023.7	679.2	672.6
15910.2	70°	10771.9	3297.5	557.8	538.1	751.4	744.8	1207.5	1079.5	780.9	787.5
11687.4	72.5°	8199.5	2500.2	554.5	538.1	652.9	712.0	1217.3	1115.6	849.8	787.5
6545.8	75°	4659.2	1496.2	488.9	469.2	515.1	620.1	1138.6	1063.1	826.8	705.4
2615.1	77.5°	1926.0	771.1	449.5	423.3	426.5	505.3	948.2	990.9	787.5	600.4
872.8	80°	718.6	462.6	360.9	338.0	328.1	370.8	675.9	790.8	672.6	492.2
383.9	82.5°	374.0	288.7	246.1	246.1	223.1	236.2	364.2	525.0	508.6	338.0
154.2	85°	190.3	164.1	141.1	137.8	124.7	111.6	183.7	311.7	292.0	187.0
68.9	87.5°	101.7	91.9	59.1	55.8	45.9	29.5	32.8	62.3	101.7	82.0
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>
4354.1
4810.1
4970.9
4649.4
4085.0
3530.5
2890.7
2437.9
2159.0
2008.0
1873.5
1706.2
1492.9
1174.6
840.0
557.8
338.0
272.3
360.9
456.1
502.0
387.2
511.9
485.6
443.0
544.7
531.5
639.8
659.5
728.4
698.9
630.0
567.6
449.5
265.8
154.2
59.1
0.0

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