

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: P599330

Luminaire Tested: **IFLD-M-SA4D-827-U-SLR-HSS**

Issue Date: 05/04/2022

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P599330
 Test Lab: INNOVATION CENTER(G1)
 Issue Date: 05/04/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: STREETWORKS
 Catalog Number: IFLD-M-SA4D-827-U-SLR-HSS
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLR distribution lens with House Side Shield
 Light Source: (64) 2700K CCT, 80 CRI LEDs
 Ballast/Driver: ELECTRONIC DRIVER

Summary

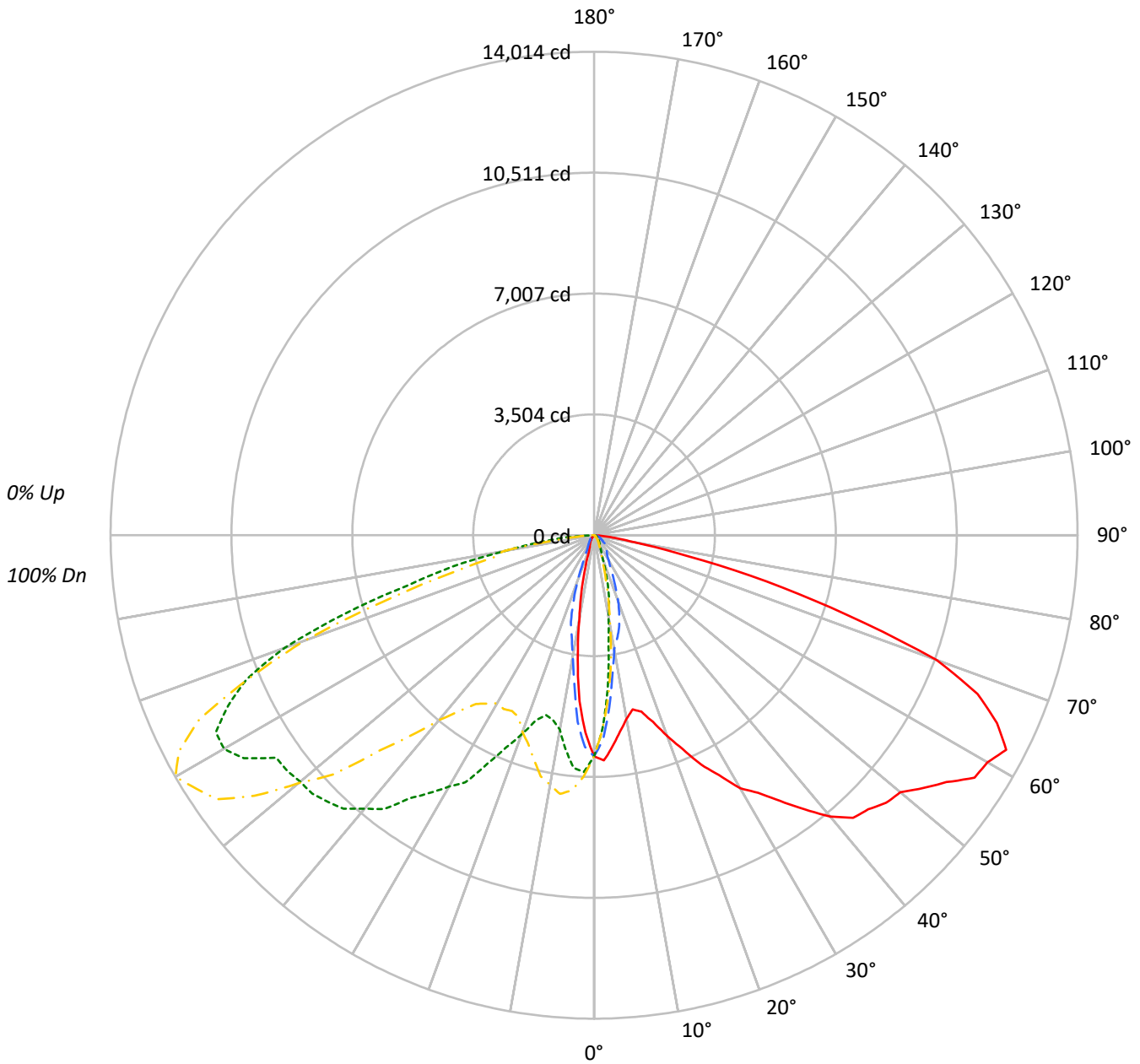
Lumens per Lamp: N/A
 Luminaire Lumens: 16751.2 lumens
 Efficiency: N/A
 Efficacy: 67.1 lumens/watt
 Spacing Criteria (0/90/45): 0.44 / 0.52 / 0.65
 Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
 CIE Type: Direct

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: 25 FT

Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	GONIO 1 IN0055	4/22/2021	10/22/2021
Power Meter	XITRON 2801 IN0197	12/1/2020	12/1/2021
AC Power Source	CHROMA 61505 IN0196	12/1/2020	12/1/2021
DC Power Supply	AGILENT E3634A IN0198	11/30/2020	11/30/2021
Room Thermometer	ONSET IN0143	12/1/2020	12/1/2021

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Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° ··· 90°-270° - · - 135°-315°

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	485.1	2.9
10°-20°	939.3	5.6
20°-30°	1308.3	7.8
30°-40°	1858.9	11.1
40°-50°	2577.8	15.4
50°-60°	3512.4	21.0
60°-70°	3861.6	23.1
70°-80°	1897.9	11.3
80°-90°	309.9	1.9
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°-30°	2732.7	16.3
0°-40°	4591.6	27.4
0°-60°	10681.8	63.8
0°-90°	16751.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16751.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	6404	6404	6404	6404	6404	
5°	6142	4489	4832	6770	6142	562
15°	5293	1581	966	5392	5293	1567
25°	7334	465	280	7298	7334	3410
35°	9398	271	149	9303	9398	5966
45°	11236	181	45	10925	11236	8710
55°	12474	136	0	11245	12474	11221
65°	12885	68	0	11710	12885	12452
75°	5171	23	0	5546	5171	5638
85°	298	0	0	971	298	412
90°	0	0	0	0	0	

TEST NUMBER: P599330
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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6404.0	6404.0	6404.0	6404.0	6404.0	6404.0	6404.0	6404.0	6404.0	6404.0	6404.0
2.5°	6534.9	6611.7	6539.5	6286.6	6241.4	6119.5	5934.3	5920.7	5726.5	5749.1	5645.3
5°	6142.0	6218.8	6065.3	5731.1	5419.4	5171.1	5022.0	4755.6	4696.9	4565.9	4565.9
7.5°	5740.1	5735.6	5473.6	5193.6	4728.5	4272.3	4064.6	3680.7	3454.9	3333.0	3215.5
10°	5405.9	5333.6	5171.1	4593.0	4087.2	3613.0	3355.5	3102.6	2867.8	2664.6	2461.3
12.5°	5171.1	5216.2	4958.8	4331.0	3676.2	3346.5	3071.0	2804.6	2524.6	2294.2	2068.4
15°	5293.0	5220.7	4918.1	4272.3	3608.4	3156.8	2791.0	2465.8	2154.2	1851.6	1680.0
17.5°	5672.4	5487.2	5130.4	4272.3	3468.4	2867.8	2425.2	2041.3	1707.1	1436.2	1223.9
20°	6182.7	5970.4	5586.5	4430.4	3364.6	2655.5	2050.4	1567.1	1219.4	966.5	803.9
22.5°	6706.6	6539.5	5961.4	4493.6	3242.6	2371.0	1616.8	1133.6	812.9	650.3	569.0
25°	7334.3	7099.5	6467.2	4746.5	3062.0	2095.5	1273.6	790.3	605.2	519.4	469.7
27.5°	7835.6	7795.0	6941.4	4900.1	2926.5	1869.7	1007.1	627.8	501.3	438.1	406.5
30°	8467.9	8246.6	7519.5	5207.2	2773.0	1612.3	840.0	564.5	460.7	392.9	370.3
32.5°	8847.2	8743.4	7822.1	5378.8	2601.3	1400.0	722.6	496.8	420.0	370.3	347.7
35°	9398.2	9190.5	8255.6	5487.2	2511.0	1278.1	650.3	451.6	352.3	302.6	275.5
37.5°	10012.4	9935.7	8775.0	5482.7	2380.0	1205.8	600.7	420.0	334.2	280.0	248.4
40°	10640.2	10328.6	9091.1	5609.1	2312.3	1151.6	564.5	401.9	316.1	266.5	225.8
42.5°	11109.9	10753.1	9456.9	5564.0	2231.0	1056.8	551.0	374.8	302.6	243.9	207.7
45°	11236.3	11109.9	9786.6	5550.4	2172.3	980.0	528.4	370.3	293.6	230.3	194.2
47.5°	11480.2	11394.4	10193.1	5573.0	2127.1	921.3	474.2	379.4	280.0	216.8	185.2
50°	11588.6	11435.0	10522.8	5627.2	2023.3	849.0	424.5	397.4	275.5	212.3	176.1
52.5°	12035.7	11900.2	10974.4	5780.7	1937.5	754.2	374.8	379.4	284.5	198.7	167.1
55°	12473.8	12320.2	11669.9	6133.0	1815.5	677.4	320.7	334.2	271.0	180.6	149.0
57.5°	13074.4	12821.5	12135.0	6277.5	1707.1	573.6	284.5	275.5	252.9	162.6	131.0
60°	13164.7	13268.6	12067.3	6187.2	1594.2	505.8	248.4	212.3	271.0	144.5	112.9
62.5°	13467.3	13033.8	11751.2	5979.5	1512.9	465.2	221.3	176.1	234.8	126.5	94.8
65°	12884.7	12564.1	11010.5	5311.1	1409.1	469.7	194.2	144.5	149.0	103.9	76.8
67.5°	12031.2	11778.3	9782.1	4583.9	1305.2	460.7	171.6	126.5	112.9	90.3	67.7
70°	10558.9	10012.4	8309.8	3721.4	1151.6	429.0	144.5	112.9	94.8	72.3	49.7
72.5°	7682.1	7460.8	5961.4	2876.8	1034.2	388.4	135.5	94.8	81.3	54.2	40.6
75°	5171.1	4805.2	3762.0	1887.8	831.0	338.7	112.9	85.8	63.2	40.6	31.6
77.5°	2732.3	2583.3	2131.6	898.7	460.7	158.1	63.2	49.7	36.1	31.6	18.1
80°	1183.2	1052.3	921.3	365.8	162.6	72.3	40.6	27.1	22.6	18.1	9.0
82.5°	605.2	578.1	478.7	158.1	94.8	54.2	22.6	18.1	13.5	9.0	4.5
85°	298.1	307.1	252.9	49.7	54.2	31.6	4.5	4.5	0.0	0.0	0.0
87.5°	22.6	22.6	18.1	9.0	13.5	4.5	0.0	0.0	0.0	0.0	0.0
90°	0.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6404.0	6404.0	6404.0	6404.0	6404.0	6404.0	6404.0	6404.0	6404.0	6404.0	6404.0
2.5°	5604.6	5667.8	5559.4	5627.2	5595.6	5609.1	5622.7	5586.5	5595.6	5722.0	5726.5
5°	4489.1	4611.0	4565.9	4629.1	4737.5	4683.3	4733.0	4724.0	4733.0	4751.0	4832.3
7.5°	3202.0	3165.9	3251.7	3418.8	3613.0	3730.4	3671.7	3640.1	3622.0	3576.8	3631.0
10°	2416.2	2398.1	2375.5	2425.2	2551.7	2682.6	2754.9	2632.9	2565.2	2479.4	2447.8
12.5°	2005.2	1892.3	1829.1	1752.3	1788.4	1905.8	1910.4	1792.9	1684.5	1639.4	1689.1
15°	1580.7	1503.9	1391.0	1282.6	1228.4	1318.7	1242.0	1129.1	989.0	971.0	966.5
17.5°	1129.1	1083.9	1002.6	957.4	894.2	871.6	790.3	618.7	519.4	492.3	501.3
20°	767.8	731.6	727.1	686.5	659.4	641.3	510.3	397.4	365.8	370.3	374.8
22.5°	569.0	551.0	528.4	523.9	501.3	478.7	374.8	334.2	311.6	311.6	325.2
25°	465.2	456.1	433.6	424.5	415.5	383.9	316.1	284.5	275.5	266.5	280.0
27.5°	397.4	392.9	379.4	365.8	356.8	325.2	275.5	248.4	239.4	239.4	239.4
30°	356.8	356.8	338.7	311.6	311.6	275.5	234.8	216.8	207.7	207.7	203.2
32.5°	334.2	325.2	302.6	284.5	271.0	234.8	207.7	189.7	176.1	176.1	180.6
35°	271.0	271.0	266.5	252.9	234.8	198.7	176.1	158.1	149.0	144.5	149.0
37.5°	239.4	225.8	207.7	212.3	203.2	171.6	149.0	135.5	121.9	121.9	121.9
40°	216.8	203.2	185.2	171.6	167.1	153.6	131.0	108.4	94.8	90.3	90.3
42.5°	194.2	185.2	158.1	135.5	131.0	131.0	99.4	81.3	67.7	67.7	67.7
45°	180.6	167.1	144.5	117.4	94.8	99.4	81.3	58.7	49.7	45.2	45.2
47.5°	171.6	158.1	126.5	99.4	72.3	72.3	58.7	40.6	31.6	27.1	27.1
50°	158.1	144.5	112.9	81.3	54.2	45.2	36.1	22.6	13.5	9.0	9.0
52.5°	149.0	135.5	99.4	67.7	45.2	31.6	22.6	4.5	0.0	0.0	0.0
55°	135.5	117.4	85.8	54.2	36.1	18.1	4.5	0.0	0.0	0.0	0.0
57.5°	117.4	103.9	67.7	40.6	22.6	4.5	0.0	0.0	0.0	0.0	0.0
60°	99.4	85.8	54.2	31.6	9.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	81.3	72.3	40.6	18.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	67.7	54.2	31.6	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	58.7	45.2	22.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	45.2	31.6	13.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	31.6	22.6	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	22.6	13.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	13.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	6404.0	6404.0	6404.0	6404.0	6404.0	6404.0	6404.0	6404.0	6404.0	6404.0	6404.0
2.5°	5744.6	5880.1	6006.6	6042.7	6142.0	6417.5	6417.5	6548.5	6783.3	6869.1	6887.2
5°	4845.9	4990.4	5017.5	5297.5	5428.5	5708.5	5893.6	6336.2	6602.7	6769.8	6873.7
7.5°	3685.2	3734.9	3838.8	4100.7	4358.1	4696.9	5049.1	5613.6	6083.3	6273.0	6625.3
10°	2533.6	2682.6	2908.4	3143.3	3545.2	3920.1	4376.2	4909.1	5487.2	5722.0	6024.6
12.5°	1707.1	1914.9	2276.2	2610.4	2980.7	3360.1	3793.6	4507.2	5162.0	5487.2	5789.8
15°	998.1	1251.0	1562.6	2104.6	2596.8	3021.3	3454.9	4177.5	4972.3	5392.3	5762.7
17.5°	505.8	582.6	840.0	1309.7	1960.0	2655.5	3301.3	4222.7	5116.9	5631.7	5938.8
20°	379.4	401.9	474.2	695.5	1341.3	2194.9	3156.8	4290.4	5518.8	6146.6	6313.7
22.5°	329.7	347.7	379.4	451.6	754.2	1680.0	2953.6	4457.5	6065.3	6656.9	7009.2
25°	280.0	298.1	325.2	370.3	483.2	1142.6	2705.2	4633.6	6553.0	7298.2	7627.9
27.5°	243.9	257.4	284.5	320.7	392.9	727.1	2276.2	4868.5	7298.2	8075.0	8160.8
30°	207.7	221.3	243.9	284.5	334.2	514.8	1671.0	4900.1	7709.2	8413.7	8653.0
32.5°	180.6	185.2	212.3	248.4	280.0	406.5	1174.2	4931.7	8011.7	8851.8	8901.4
35°	149.0	158.1	185.2	207.7	243.9	320.7	889.7	4773.6	8404.7	9303.4	9289.8
37.5°	121.9	135.5	153.6	171.6	198.7	271.0	709.0	4480.1	8896.9	10003.4	9578.9
40°	94.8	108.4	126.5	149.0	167.1	243.9	532.9	4037.5	9411.8	10346.6	9895.0
42.5°	67.7	76.8	94.8	117.4	149.0	203.2	383.9	3513.6	9615.0	10748.6	10274.4
45°	49.7	58.7	72.3	99.4	153.6	162.6	266.5	3034.9	9831.8	10924.7	10188.6
47.5°	27.1	36.1	54.2	85.8	135.5	121.9	189.7	2605.9	10080.2	11082.8	10256.3
50°	9.0	13.5	31.6	90.3	108.4	94.8	149.0	2375.5	10324.0	11114.4	10391.8
52.5°	0.0	0.0	18.1	94.8	81.3	72.3	131.0	2285.2	10260.8	11213.7	10306.0
55°	0.0	0.0	4.5	40.6	45.2	54.2	108.4	2280.7	10707.9	11245.4	10775.7
57.5°	0.0	0.0	0.0	13.5	27.1	45.2	94.8	2136.2	10992.4	12031.2	11407.9
60°	0.0	0.0	0.0	4.5	18.1	31.6	72.3	2009.7	11281.5	12383.4	12085.4
62.5°	0.0	0.0	0.0	0.0	4.5	13.5	49.7	1815.5	10698.9	12356.3	12740.2
65°	0.0	0.0	0.0	0.0	0.0	0.0	31.6	1436.2	9624.0	11710.5	12378.9
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	18.1	993.6	8427.2	10897.6	11715.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	600.7	6801.4	9556.3	9935.7
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	257.4	4854.9	7587.2	8151.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	103.9	3003.3	5545.9	6241.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.6	1946.5	4200.1	4737.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	1038.7	2632.9	3062.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	451.6	1598.7	1842.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	144.5	971.0	1106.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	149.0	198.7
90°	0.0	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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6404.0	6404.0	6404.0	6404.0	6404.0	6404.0	6404.0	6404.0	6404.0	6404.0
2.5°	6896.2	7027.2	7076.9	7000.1	7009.2	6851.1	6828.5	6607.2	6516.9	6534.9
5°	7212.4	7402.1	7505.9	7420.1	7225.9	6923.3	6647.9	6385.9	6223.3	6142.0
7.5°	7140.1	7352.4	7483.4	7564.6	7343.3	6855.6	6435.6	5943.3	5735.6	5740.1
10°	6742.7	7185.3	7451.7	7347.9	7244.0	6756.2	6105.9	5573.0	5387.8	5405.9
12.5°	6422.0	6914.3	7072.4	7153.7	6941.4	6553.0	6114.9	5505.3	5297.5	5171.1
15°	6223.3	6589.1	6598.2	6724.6	6638.8	6638.8	6209.8	5613.6	5433.0	5293.0
17.5°	6223.3	6304.6	6295.6	6340.8	6485.3	6656.9	6449.1	6051.7	5694.9	5672.4
20°	6363.3	6110.4	6051.7	6069.8	6191.7	6702.0	6977.5	6480.8	6254.9	6182.7
22.5°	6688.5	6133.0	5776.2	5713.0	6087.8	6697.5	7316.3	7158.2	6765.3	6706.6
25°	7135.6	6092.4	5704.0	5622.7	5907.2	6860.1	7781.4	7813.0	7456.3	7334.3
27.5°	7560.1	6273.0	5694.9	5676.9	6051.7	6824.0	8102.1	8336.9	7935.0	7835.6
30°	7704.6	6453.7	5862.0	5622.7	6105.9	6955.0	8093.0	8707.2	8445.3	8467.9
32.5°	7876.3	6634.3	5880.1	5785.3	6336.2	7167.2	8350.5	9303.4	9113.7	8847.2
35°	8129.2	6878.2	6051.7	5965.9	6498.8	7356.9	8404.7	9741.5	9709.8	9398.2
37.5°	8345.9	7117.5	6408.5	6422.0	6995.6	7664.0	8644.0	10278.9	10224.7	10012.4
40°	8499.5	7451.7	6964.0	7000.1	7429.2	8007.2	9068.5	10549.9	10951.8	10640.2
42.5°	8522.1	7749.8	7600.8	7889.8	8291.8	8540.1	9240.2	10735.0	11313.1	11109.9
45°	8607.9	8224.0	8639.5	8851.8	9181.4	9009.8	9231.1	11051.2	11340.2	11236.3
47.5°	8942.1	9086.6	9610.5	10256.3	10373.7	9809.2	9447.9	11100.8	11493.7	11480.2
50°	9289.8	10012.4	10748.6	11177.6	11326.6	10360.2	9651.1	11060.2	11697.0	11588.6
52.5°	9678.2	10816.3	11877.6	12406.0	12324.7	10969.9	9881.5	11389.9	12071.8	12035.7
55°	9922.1	11177.6	12604.7	13340.9	13277.6	11651.8	10613.1	11864.1	12564.1	12473.8
57.5°	10567.9	11764.7	13327.3	13670.6	13837.7	12546.0	11123.4	12640.9	12975.1	13074.4
60°	11100.8	12148.6	13517.0	14013.8	14072.5	13078.9	12017.6	13440.2	13498.9	13164.7
62.5°	11882.1	12297.6	13115.1	13562.2	13864.8	13381.5	12821.5	13869.3	13489.9	13467.3
65°	12455.7	11809.9	12365.4	12613.8	12808.0	12920.9	13629.9	14162.8	13322.8	12884.7
67.5°	12135.0	10888.6	10784.7	10798.2	10857.0	11538.9	13358.9	13444.7	12392.5	12031.2
70°	10680.8	8933.1	8793.1	8901.4	8607.9	9429.8	12261.5	12220.9	10933.7	10558.9
72.5°	8639.5	6512.4	6273.0	6422.0	6489.8	7361.4	10315.0	9267.3	7975.6	7682.1
75°	6864.6	4773.6	4028.5	4389.8	4620.1	5360.7	8056.9	6295.6	5568.5	5171.1
77.5°	5392.3	3613.0	3134.2	2989.7	3202.0	3897.5	5862.0	3305.9	2917.5	2732.3
80°	3418.8	2655.5	2881.3	2673.6	2763.9	2782.0	3053.0	1503.9	1196.8	1183.2
82.5°	2059.4	1815.5	2158.7	1187.8	2163.3	1932.9	1269.1	681.9	605.2	605.2
85°	1458.7	1124.5	745.2	483.2	962.0	1061.3	492.3	352.3	307.1	298.1
87.5°	731.6	347.7	167.1	108.4	121.9	198.7	58.7	27.1	27.1	22.6
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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