

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: P599320

Luminaire Tested: **IFLD-S-SA3D-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: P599320
 Test Lab: INNOVATION CENTER(G1)
 Issue Date: 05/04/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: STREETWORKS
 Catalog Number: IFLD-S-SA3D-827-U-SLR-HSS
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLR distribution lens with House Side Shield
 Light Source: (48) 2700K CCT, 80 CRI LEDs
 Ballast/Driver: ELECTRONIC DRIVER

Summary

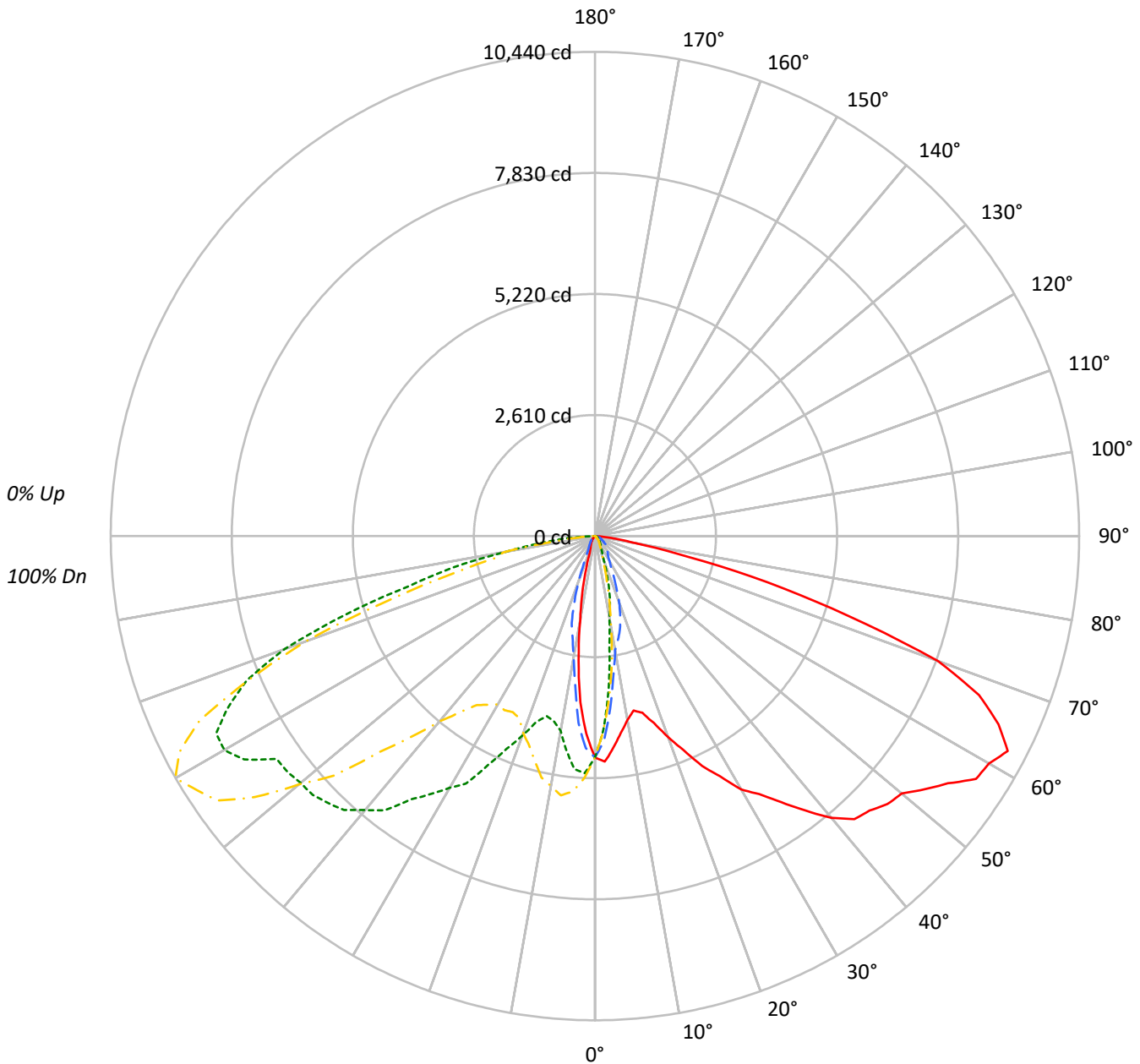
Lumens per Lamp: N/A
 Luminaire Lumens: 12479.9 lumens
 Efficiency: N/A
 Efficacy: 67.8 lumens/watt
 Spacing Criteria (0/90/45): 0.44 / 0.52 / 0.65
 Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
 CIE Type: Direct

Input Watts (W): 184.1
 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°	361.4	2.9
10°-20°	699.8	5.6
20°-30°	974.7	7.8
30°-40°	1384.9	11.1
40°-50°	1920.5	15.4
50°-60°	2616.8	21.0
60°-70°	2876.9	23.1
70°-80°	1414.0	11.3
80°-90°	230.9	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°	2035.9	16.3
0°-40°	3420.8	27.4
0°-60°	7958.1	63.8
0°-90°	12479.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12479.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4771	4771	4771	4771	4771	
5°	4576	3344	3600	5044	4576	419
15°	3943	1178	720	4017	3943	1167
25°	5464	347	209	5437	5464	2540
35°	7002	202	111	6931	7002	4445
45°	8371	135	34	8139	8371	6489
55°	9293	101	0	8378	9293	8360
65°	9599	50	0	8724	9599	9277
75°	3852	17	0	4132	3852	4200
85°	222	0	0	723	222	307
90°	0	0	0	0	0	

TEST NUMBER: P599320
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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4771.1	4771.1	4771.1	4771.1	4771.1	4771.1	4771.1	4771.1	4771.1	4771.1	4771.1
2.5°	4868.6	4925.8	4872.0	4683.6	4649.9	4559.1	4421.1	4411.0	4266.4	4283.2	4205.8
5°	4575.9	4633.1	4518.7	4269.7	4037.6	3852.5	3741.5	3543.0	3499.2	3401.7	3401.7
7.5°	4276.5	4273.1	4077.9	3869.3	3522.8	3183.0	3028.2	2742.2	2574.0	2483.1	2395.6
10°	4027.5	3973.6	3852.5	3421.8	3045.0	2691.7	2499.9	2311.5	2136.5	1985.1	1833.7
12.5°	3852.5	3886.2	3694.4	3226.7	2738.8	2493.2	2288.0	2089.4	1880.8	1709.2	1541.0
15°	3943.4	3889.5	3664.1	3183.0	2688.3	2351.9	2079.3	1837.1	1604.9	1379.5	1251.6
17.5°	4226.0	4088.0	3822.2	3183.0	2584.0	2136.5	1806.8	1520.8	1271.8	1070.0	911.8
20°	4606.2	4448.1	4162.1	3300.7	2506.7	1978.4	1527.5	1167.5	908.5	720.0	598.9
22.5°	4996.5	4872.0	4441.3	3347.8	2415.8	1766.4	1204.5	844.5	605.6	484.5	423.9
25°	5464.2	5289.2	4818.2	3536.2	2281.2	1561.2	948.8	588.8	450.9	386.9	349.9
27.5°	5837.7	5807.4	5171.5	3650.6	2180.3	1393.0	750.3	467.7	373.5	326.4	302.8
30°	6308.7	6143.8	5602.1	3879.4	2065.9	1201.2	625.8	420.6	343.2	292.7	275.9
32.5°	6591.3	6513.9	5827.6	4007.3	1938.0	1043.0	538.3	370.1	312.9	275.9	259.1
35°	7001.8	6847.0	6150.6	4088.0	1870.7	952.2	484.5	336.5	262.4	225.4	205.2
37.5°	7459.4	7402.2	6537.5	4084.7	1773.2	898.4	447.5	312.9	249.0	208.6	185.1
40°	7927.1	7694.9	6773.0	4178.9	1722.7	858.0	420.6	299.5	235.5	198.5	168.2
42.5°	8277.0	8011.2	7045.6	4145.2	1662.1	787.3	410.5	279.3	225.4	181.7	154.8
45°	8371.2	8277.0	7291.2	4135.1	1618.4	730.1	393.7	275.9	218.7	171.6	144.7
47.5°	8552.9	8489.0	7594.0	4152.0	1584.7	686.4	353.3	282.6	208.6	161.5	138.0
50°	8633.7	8519.3	7839.6	4192.3	1507.4	632.6	316.3	296.1	205.2	158.1	131.2
52.5°	8966.8	8865.8	8176.1	4306.7	1443.4	561.9	279.3	282.6	212.0	148.0	124.5
55°	9293.1	9178.7	8694.2	4569.2	1352.6	504.7	238.9	249.0	201.9	134.6	111.0
57.5°	9740.6	9552.2	9040.8	4676.9	1271.8	427.3	212.0	205.2	188.4	121.1	97.6
60°	9807.9	9885.3	8990.3	4609.6	1187.7	376.8	185.1	158.1	201.9	107.7	84.1
62.5°	10033.4	9710.4	8754.8	4454.8	1127.2	346.6	164.9	131.2	175.0	94.2	70.7
65°	9599.3	9360.4	8203.0	3956.8	1049.8	349.9	144.7	107.7	111.0	77.4	57.2
67.5°	8963.4	8775.0	7287.8	3415.1	972.4	343.2	127.9	94.2	84.1	67.3	50.5
70°	7866.5	7459.4	6190.9	2772.5	858.0	319.6	107.7	84.1	70.7	53.8	37.0
72.5°	5723.3	5558.4	4441.3	2143.3	770.5	289.4	100.9	70.7	60.6	40.4	30.3
75°	3852.5	3580.0	2802.7	1406.4	619.1	252.3	84.1	63.9	47.1	30.3	23.6
77.5°	2035.6	1924.6	1588.1	669.6	343.2	117.8	47.1	37.0	26.9	23.6	13.5
80°	881.5	784.0	686.4	272.5	121.1	53.8	30.3	20.2	16.8	13.5	6.7
82.5°	450.9	430.7	356.7	117.8	70.7	40.4	16.8	13.5	10.1	6.7	3.4
85°	222.1	228.8	188.4	37.0	40.4	23.6	3.4	3.4	0.0	0.0	0.0
87.5°	16.8	16.8	13.5	6.7	10.1	3.4	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°	4771.1	4771.1	4771.1	4771.1	4771.1	4771.1	4771.1	4771.1	4771.1	4771.1	4771.1
2.5°	4175.5	4222.6	4141.9	4192.3	4168.8	4178.9	4189.0	4162.1	4168.8	4263.0	4266.4
5°	3344.5	3435.3	3401.7	3448.8	3529.5	3489.1	3526.1	3519.4	3526.1	3539.6	3600.2
7.5°	2385.5	2358.6	2422.5	2547.0	2691.7	2779.2	2735.5	2711.9	2698.4	2664.8	2705.2
10°	1800.1	1786.6	1769.8	1806.8	1901.0	1998.6	2052.4	1961.6	1911.1	1847.2	1823.6
12.5°	1493.9	1409.8	1362.7	1305.5	1332.4	1419.9	1423.2	1335.8	1255.0	1221.4	1258.4
15°	1177.6	1120.4	1036.3	955.6	915.2	982.5	925.3	841.2	736.9	723.4	720.0
17.5°	841.2	807.5	747.0	713.3	666.2	649.4	588.8	461.0	386.9	366.7	373.5
20°	572.0	545.1	541.7	511.4	491.2	477.8	380.2	296.1	272.5	275.9	279.3
22.5°	423.9	410.5	393.7	390.3	373.5	356.7	279.3	249.0	232.2	232.2	242.3
25°	346.6	339.8	323.0	316.3	309.5	286.0	235.5	212.0	205.2	198.5	208.6
27.5°	296.1	292.7	282.6	272.5	265.8	242.3	205.2	185.1	178.3	178.3	178.3
30°	265.8	265.8	252.3	232.2	232.2	205.2	175.0	161.5	154.8	154.8	151.4
32.5°	249.0	242.3	225.4	212.0	201.9	175.0	154.8	141.3	131.2	131.2	134.6
35°	201.9	201.9	198.5	188.4	175.0	148.0	131.2	117.8	111.0	107.7	111.0
37.5°	178.3	168.2	154.8	158.1	151.4	127.9	111.0	100.9	90.8	90.8	90.8
40°	161.5	151.4	138.0	127.9	124.5	114.4	97.6	80.8	70.7	67.3	67.3
42.5°	144.7	138.0	117.8	100.9	97.6	97.6	74.0	60.6	50.5	50.5	50.5
45°	134.6	124.5	107.7	87.5	70.7	74.0	60.6	43.7	37.0	33.6	33.6
47.5°	127.9	117.8	94.2	74.0	53.8	53.8	43.7	30.3	23.6	20.2	20.2
50°	117.8	107.7	84.1	60.6	40.4	33.6	26.9	16.8	10.1	6.7	6.7
52.5°	111.0	100.9	74.0	50.5	33.6	23.6	16.8	3.4	0.0	0.0	0.0
55°	100.9	87.5	63.9	40.4	26.9	13.5	3.4	0.0	0.0	0.0	0.0
57.5°	87.5	77.4	50.5	30.3	16.8	3.4	0.0	0.0	0.0	0.0	0.0
60°	74.0	63.9	40.4	23.6	6.7	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	60.6	53.8	30.3	13.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	50.5	40.4	23.6	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	43.7	33.6	16.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	33.6	23.6	10.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	23.6	16.8	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	16.8	10.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	10.1	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	3.4	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°	4771.1	4771.1	4771.1	4771.1	4771.1	4771.1	4771.1	4771.1	4771.1	4771.1	4771.1
2.5°	4279.8	4380.8	4475.0	4501.9	4575.9	4781.2	4781.2	4878.7	5053.7	5117.6	5131.1
5°	3610.3	3717.9	3738.1	3946.7	4044.3	4252.9	4390.9	4720.6	4919.1	5043.6	5121.0
7.5°	2745.5	2782.6	2859.9	3055.1	3246.9	3499.2	3761.7	4182.3	4532.2	4673.5	4935.9
10°	1887.6	1998.6	2166.8	2341.8	2641.2	2920.5	3260.3	3657.4	4088.0	4263.0	4488.4
12.5°	1271.8	1426.6	1695.8	1944.8	2220.7	2503.3	2826.3	3357.9	3845.8	4088.0	4313.5
15°	743.6	932.0	1164.2	1567.9	1934.7	2250.9	2574.0	3112.3	3704.5	4017.4	4293.3
17.5°	376.8	434.0	625.8	975.7	1460.3	1978.4	2459.6	3145.9	3812.1	4195.7	4424.5
20°	282.6	299.5	353.3	518.2	999.3	1635.2	2351.9	3196.4	4111.6	4579.3	4703.8
22.5°	245.6	259.1	282.6	336.5	561.9	1251.6	2200.5	3320.9	4518.7	4959.5	5221.9
25°	208.6	222.1	242.3	275.9	360.0	851.3	2015.4	3452.1	4882.1	5437.3	5682.9
27.5°	181.7	191.8	212.0	238.9	292.7	541.7	1695.8	3627.1	5437.3	6016.0	6079.9
30°	154.8	164.9	181.7	212.0	249.0	383.6	1244.9	3650.6	5743.4	6268.3	6446.7
32.5°	134.6	138.0	158.1	185.1	208.6	302.8	874.8	3674.2	5968.9	6594.7	6631.7
35°	111.0	117.8	138.0	154.8	181.7	238.9	662.8	3556.4	6261.6	6931.2	6921.1
37.5°	90.8	100.9	114.4	127.9	148.0	201.9	528.2	3337.7	6628.3	7452.7	7136.4
40°	70.7	80.8	94.2	111.0	124.5	181.7	397.0	3008.0	7011.9	7708.4	7371.9
42.5°	50.5	57.2	70.7	87.5	111.0	151.4	286.0	2617.7	7163.3	8007.8	7654.6
45°	37.0	43.7	53.8	74.0	114.4	121.1	198.5	2261.0	7324.8	8139.1	7590.6
47.5°	20.2	26.9	40.4	63.9	100.9	90.8	141.3	1941.4	7509.9	8256.8	7641.1
50°	6.7	10.1	23.6	67.3	80.8	70.7	111.0	1769.8	7691.6	8280.4	7742.0
52.5°	0.0	0.0	13.5	70.7	60.6	53.8	97.6	1702.5	7644.5	8354.4	7678.1
55°	0.0	0.0	3.4	30.3	33.6	40.4	80.8	1699.1	7977.6	8378.0	8028.0
57.5°	0.0	0.0	0.0	10.1	20.2	33.6	70.7	1591.5	8189.5	8963.4	8499.1
60°	0.0	0.0	0.0	3.4	13.5	23.6	53.8	1497.3	8404.9	9225.9	9003.8
62.5°	0.0	0.0	0.0	0.0	3.4	10.1	37.0	1352.6	7970.8	9205.7	9491.7
65°	0.0	0.0	0.0	0.0	0.0	0.0	23.6	1070.0	7170.1	8724.5	9222.5
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	13.5	740.2	6278.4	8118.9	8727.9
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	447.5	5067.2	7119.6	7402.2
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	191.8	3617.0	5652.6	6073.2
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	77.4	2237.5	4131.8	4649.9
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.3	1450.2	3129.1	3529.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	773.9	1961.6	2281.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	336.5	1191.1	1372.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	107.7	723.4	824.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	111.0	148.0
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4771.1	4771.1	4771.1	4771.1	4771.1	4771.1	4771.1	4771.1	4771.1	4771.1
2.5°	5137.8	5235.4	5272.4	5215.2	5221.9	5104.2	5087.3	4922.5	4855.2	4868.6
5°	5373.3	5514.6	5592.0	5528.1	5383.4	5158.0	4952.8	4757.6	4636.5	4575.9
7.5°	5319.5	5477.6	5575.2	5635.8	5470.9	5107.5	4794.6	4427.9	4273.1	4276.5
10°	5023.4	5353.1	5551.7	5474.3	5396.9	5033.5	4549.0	4152.0	4014.0	4027.5
12.5°	4784.5	5151.3	5269.0	5329.6	5171.5	4882.1	4555.7	4101.5	3946.7	3852.5
15°	4636.5	4909.0	4915.7	5010.0	4946.0	4946.0	4626.4	4182.3	4047.7	3943.4
17.5°	4636.5	4697.0	4690.3	4724.0	4831.6	4959.5	4804.7	4508.6	4242.8	4226.0
20°	4740.8	4552.4	4508.6	4522.1	4612.9	4993.1	5198.4	4828.3	4660.0	4606.2
22.5°	4983.0	4569.2	4303.4	4256.3	4535.5	4989.8	5450.7	5333.0	5040.2	4996.5
25°	5316.1	4538.9	4249.5	4189.0	4401.0	5110.9	5797.3	5820.8	5555.0	5464.2
27.5°	5632.4	4673.5	4242.8	4229.4	4508.6	5084.0	6036.2	6211.1	5911.7	5837.7
30°	5740.1	4808.1	4367.3	4189.0	4549.0	5181.5	6029.4	6487.0	6291.9	6308.7
32.5°	5867.9	4942.7	4380.8	4310.1	4720.6	5339.7	6221.2	6931.2	6789.8	6591.3
35°	6056.4	5124.4	4508.6	4444.7	4841.7	5481.0	6261.6	7257.5	7234.0	7001.8
37.5°	6217.9	5302.7	4774.4	4784.5	5211.8	5709.8	6439.9	7657.9	7617.6	7459.4
40°	6332.3	5551.7	5188.3	5215.2	5534.8	5965.5	6756.2	7859.8	8159.3	7927.1
42.5°	6349.1	5773.7	5662.7	5878.0	6177.5	6362.5	6884.1	7997.8	8428.4	8277.0
45°	6413.0	6127.0	6436.6	6594.7	6840.3	6712.5	6877.3	8233.3	8448.6	8371.2
47.5°	6662.0	6769.7	7160.0	7641.1	7728.6	7308.0	7038.8	8270.3	8563.0	8552.9
50°	6921.1	7459.4	8007.8	8327.5	8438.5	7718.5	7190.2	8240.0	8714.4	8633.7
52.5°	7210.4	8058.3	8849.0	9242.7	9182.1	8172.7	7361.8	8485.6	8993.7	8966.8
55°	7392.1	8327.5	9390.7	9939.2	9892.0	8680.8	7906.9	8838.9	9360.4	9293.1
57.5°	7873.3	8764.9	9929.1	10184.8	10309.3	9347.0	8287.1	9417.6	9666.6	9740.6
60°	8270.3	9050.9	10070.4	10440.5	10484.2	9744.0	8953.3	10013.2	10056.9	9807.9
62.5°	8852.4	9161.9	9770.9	10104.0	10329.5	9969.4	9552.2	10332.8	10050.2	10033.4
65°	9279.7	8798.5	9212.4	9397.4	9542.1	9626.2	10154.5	10551.5	9925.7	9599.3
67.5°	9040.8	8112.2	8034.8	8044.9	8088.6	8596.7	9952.6	10016.5	9232.6	8963.4
70°	7957.4	6655.3	6551.0	6631.7	6413.0	7025.4	9135.0	9104.7	8145.8	7866.5
72.5°	6436.6	4851.8	4673.5	4784.5	4835.0	5484.4	7684.8	6904.2	5942.0	5723.3
75°	5114.3	3556.4	3001.3	3270.4	3442.0	3993.8	6002.5	4690.3	4148.6	3852.5
77.5°	4017.4	2691.7	2335.1	2227.4	2385.5	2903.7	4367.3	2462.9	2173.6	2035.6
80°	2547.0	1978.4	2146.6	1991.9	2059.2	2072.6	2274.5	1120.4	891.6	881.5
82.5°	1534.3	1352.6	1608.3	884.9	1611.7	1440.1	945.5	508.1	450.9	450.9
85°	1086.8	837.8	555.2	360.0	716.7	790.7	366.7	262.4	228.8	222.1
87.5°	545.1	259.1	124.5	80.8	90.8	148.0	43.7	20.2	20.2	16.8
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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