

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: P599185

Luminaire Tested: **IFLD-M-SA4D-730-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: P599185
 Test Lab: INNOVATION CENTER(G1)
 Issue Date: 05/04/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: STREETWORKS
 Catalog Number: IFLD-M-SA4D-730-U-SLR-HSS
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLR distribution lens with House Side Shield
 Light Source: (64) 3000K CCT, 70 CRI LEDs
 Ballast/Driver: ELECTRONIC DRIVER

Summary

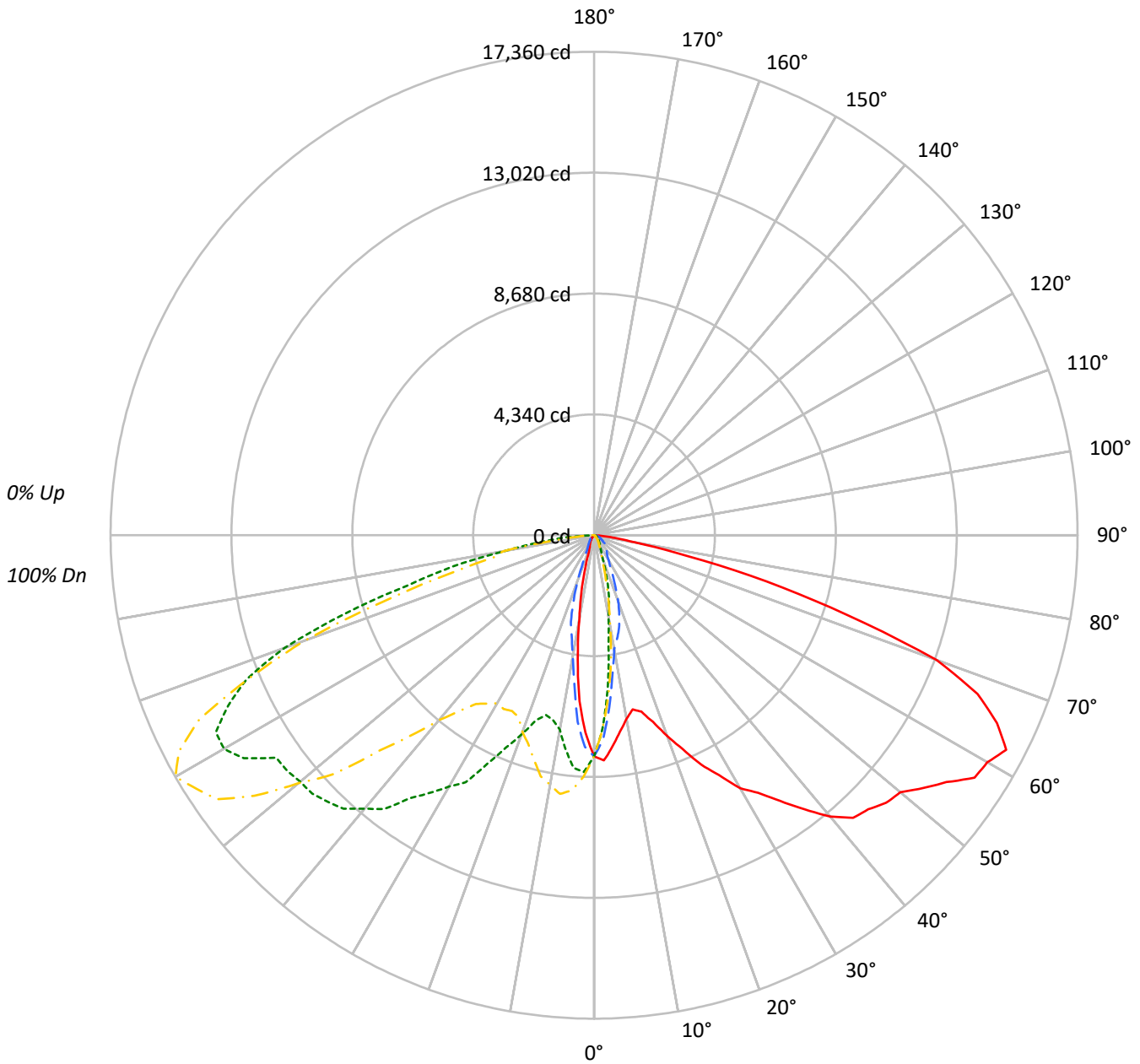
Lumens per Lamp: N/A
 Luminaire Lumens: 20750.5 lumens
 Efficiency: N/A
 Efficacy: 83.1 lumens/watt
 Spacing Criteria (0/90/45): 0.44 / 0.52 / 0.65
 Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
 CIE Type: Direct

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°	600.9	2.9
10°-20°	1163.6	5.6
20°-30°	1620.6	7.8
30°-40°	2302.7	11.1
40°-50°	3193.2	15.4
50°-60°	4350.9	21.0
60°-70°	4783.5	23.1
70°-80°	2351.1	11.3
80°-90°	383.9	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°	3385.1	16.3
0°-40°	5687.9	27.4
0°-60°	13232.0	63.8
0°-90°	20750.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20750.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	7933	7933	7933	7933	7933	
5°	7608	5561	5986	8386	7608	696
15°	6557	1958	1197	6680	6557	1941
25°	9085	576	347	9041	9085	4224
35°	11642	336	185	11524	11642	7390
45°	13919	224	56	13533	13919	10790
55°	15452	168	0	13930	15452	13900
65°	15961	84	0	14506	15961	15424
75°	6406	28	0	6870	6406	6983
85°	369	0	0	1203	369	511
90°	0	0	0	0	0	

TEST NUMBER: P599185
 CATALOG NUMBER: IFLD-M-SA4D-730-U-SLR-HSS

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7932.9	7932.9	7932.9	7932.9	7932.9	7932.9	7932.9	7932.9	7932.9	7932.9	7932.9
2.5°	8095.1	8190.2	8100.7	7787.4	7731.5	7580.4	7351.1	7334.3	7093.7	7121.7	6993.0
5°	7608.4	7703.5	7513.3	7099.3	6713.3	6405.6	6221.0	5890.9	5818.2	5656.0	5656.0
7.5°	7110.5	7104.9	6780.4	6433.6	5857.4	5292.3	5035.0	4559.5	4279.7	4128.7	3983.2
10°	6696.5	6607.0	6405.6	5689.5	5062.9	4475.5	4156.7	3843.4	3552.5	3300.7	3049.0
12.5°	6405.6	6461.6	6142.7	5365.0	4553.9	4145.5	3804.2	3474.1	3127.3	2842.0	2562.2
15°	6556.7	6467.1	6092.3	5292.3	4469.9	3910.5	3457.4	3054.6	2668.5	2293.7	2081.1
17.5°	7026.6	6797.2	6355.3	5292.3	4296.5	3552.5	3004.2	2528.7	2114.7	1779.0	1516.1
20°	7658.8	7395.8	6920.3	5488.1	4167.8	3289.5	2539.9	1941.3	1510.5	1197.2	995.8
22.5°	8307.7	8100.7	7384.6	5566.4	4016.8	2937.1	2002.8	1404.2	1007.0	805.6	704.9
25°	9085.3	8794.4	8011.2	5879.7	3793.0	2595.8	1577.6	979.0	749.7	643.4	581.8
27.5°	9706.3	9656.0	8598.6	6069.9	3625.2	2316.1	1247.6	777.6	621.0	542.7	503.5
30°	10489.5	10215.4	9314.7	6450.4	3435.0	1997.2	1040.6	699.3	570.6	486.7	458.7
32.5°	10959.5	10830.8	9689.5	6663.0	3222.4	1734.3	895.1	615.4	520.3	458.7	430.8
35°	11642.0	11384.6	10226.6	6797.2	3110.5	1583.2	805.6	559.4	436.4	374.8	341.3
37.5°	12402.8	12307.7	10870.0	6791.6	2948.3	1493.7	744.1	520.3	414.0	346.9	307.7
40°	13180.4	12794.4	11261.6	6948.3	2864.3	1426.6	699.3	497.9	391.6	330.1	279.7
42.5°	13762.3	13320.3	11714.7	6892.3	2763.6	1309.1	682.5	464.3	374.8	302.1	257.3
45°	13918.9	13762.3	12123.1	6875.5	2690.9	1214.0	654.5	458.7	363.6	285.3	240.6
47.5°	14221.0	14114.7	12626.6	6903.5	2635.0	1141.3	587.4	469.9	346.9	268.5	229.4
50°	14355.3	14165.1	13035.0	6970.6	2506.3	1051.8	525.9	492.3	341.3	262.9	218.2
52.5°	14909.1	14741.3	13594.4	7160.9	2400.0	934.3	464.3	469.9	352.4	246.2	207.0
55°	15451.8	15261.6	14456.0	7597.2	2249.0	839.2	397.2	414.0	335.7	223.8	184.6
57.5°	16195.8	15882.6	15032.2	7776.2	2114.7	710.5	352.4	341.3	313.3	201.4	162.2
60°	16307.7	16436.4	14948.3	7664.4	1974.8	626.6	307.7	262.9	335.7	179.0	139.9
62.5°	16682.6	16145.5	14556.7	7407.0	1874.1	576.2	274.1	218.2	290.9	156.6	117.5
65°	15960.9	15563.7	13639.2	6579.0	1745.5	581.8	240.6	179.0	184.6	128.7	95.1
67.5°	14903.5	14590.2	12117.5	5678.3	1616.8	570.6	212.6	156.6	139.9	111.9	83.9
70°	13079.7	12402.8	10293.7	4609.8	1426.6	531.5	179.0	139.9	117.5	89.5	61.5
72.5°	9516.1	9242.0	7384.6	3563.6	1281.1	481.1	167.8	117.5	100.7	67.1	50.3
75°	6405.6	5952.5	4660.2	2338.5	1029.4	419.6	139.9	106.3	78.3	50.3	39.2
77.5°	3384.6	3200.0	2640.6	1113.3	570.6	195.8	78.3	61.5	44.8	39.2	22.4
80°	1465.7	1303.5	1141.3	453.1	201.4	89.5	50.3	33.6	28.0	22.4	11.2
82.5°	749.7	716.1	593.0	195.8	117.5	67.1	28.0	22.4	16.8	11.2	5.6
85°	369.2	380.4	313.3	61.5	67.1	39.2	5.6	5.6	0.0	0.0	0.0
87.5°	28.0	28.0	22.4	11.2	16.8	5.6	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°	7932.9	7932.9	7932.9	7932.9	7932.9	7932.9	7932.9	7932.9	7932.9	7932.9	7932.9
2.5°	6942.7	7021.0	6886.7	6970.6	6931.5	6948.3	6965.1	6920.3	6931.5	7088.1	7093.7
5°	5560.9	5711.9	5656.0	5734.3	5868.5	5801.4	5862.9	5851.8	5862.9	5885.3	5986.0
7.5°	3966.4	3921.7	4028.0	4235.0	4475.5	4621.0	4548.3	4509.1	4486.7	4430.8	4497.9
10°	2993.0	2970.6	2942.7	3004.2	3160.8	3323.1	3412.6	3261.5	3177.6	3071.3	3032.2
12.5°	2483.9	2344.1	2265.7	2170.6	2215.4	2360.8	2366.4	2221.0	2086.7	2030.8	2092.3
15°	1958.0	1862.9	1723.1	1588.8	1521.7	1633.6	1538.5	1398.6	1225.2	1202.8	1197.2
17.5°	1398.6	1342.7	1242.0	1186.0	1107.7	1079.7	979.0	766.4	643.4	609.8	621.0
20°	951.1	906.3	900.7	850.4	816.8	794.4	632.2	492.3	453.1	458.7	464.3
22.5°	704.9	682.5	654.5	649.0	621.0	593.0	464.3	414.0	386.0	386.0	402.8
25°	576.2	565.0	537.1	525.9	514.7	475.5	391.6	352.4	341.3	330.1	346.9
27.5°	492.3	486.7	469.9	453.1	442.0	402.8	341.3	307.7	296.5	296.5	296.5
30°	442.0	442.0	419.6	386.0	386.0	341.3	290.9	268.5	257.3	257.3	251.7
32.5°	414.0	402.8	374.8	352.4	335.7	290.9	257.3	235.0	218.2	218.2	223.8
35°	335.7	335.7	330.1	313.3	290.9	246.2	218.2	195.8	184.6	179.0	184.6
37.5°	296.5	279.7	257.3	262.9	251.7	212.6	184.6	167.8	151.0	151.0	151.0
40°	268.5	251.7	229.4	212.6	207.0	190.2	162.2	134.3	117.5	111.9	111.9
42.5°	240.6	229.4	195.8	167.8	162.2	162.2	123.1	100.7	83.9	83.9	83.9
45°	223.8	207.0	179.0	145.5	117.5	123.1	100.7	72.7	61.5	55.9	55.9
47.5°	212.6	195.8	156.6	123.1	89.5	89.5	72.7	50.3	39.2	33.6	33.6
50°	195.8	179.0	139.9	100.7	67.1	55.9	44.8	28.0	16.8	11.2	11.2
52.5°	184.6	167.8	123.1	83.9	55.9	39.2	28.0	5.6	0.0	0.0	0.0
55°	167.8	145.5	106.3	67.1	44.8	22.4	5.6	0.0	0.0	0.0	0.0
57.5°	145.5	128.7	83.9	50.3	28.0	5.6	0.0	0.0	0.0	0.0	0.0
60°	123.1	106.3	67.1	39.2	11.2	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	100.7	89.5	50.3	22.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	83.9	67.1	39.2	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	72.7	55.9	28.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	55.9	39.2	16.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	39.2	28.0	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	28.0	16.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	16.8	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	5.6	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°	7932.9	7932.9	7932.9	7932.9	7932.9	7932.9	7932.9	7932.9	7932.9	7932.9	7932.9
2.5°	7116.1	7283.9	7440.6	7485.3	7608.4	7949.7	7949.7	8111.9	8402.8	8509.1	8531.5
5°	6002.8	6181.8	6215.4	6562.3	6724.5	7071.3	7300.7	7849.0	8179.0	8386.0	8514.7
7.5°	4565.0	4626.6	4755.3	5079.7	5398.6	5818.2	6254.6	6953.9	7535.7	7770.6	8207.0
10°	3138.5	3323.1	3602.8	3893.7	4391.6	4856.0	5421.0	6081.1	6797.2	7088.1	7463.0
12.5°	2114.7	2372.0	2819.6	3233.6	3692.3	4162.2	4699.3	5583.2	6394.4	6797.2	7172.0
15°	1236.4	1549.7	1935.7	2607.0	3216.8	3742.7	4279.7	5174.8	6159.5	6679.7	7138.5
17.5°	626.6	721.7	1040.6	1622.4	2428.0	3289.5	4089.5	5230.8	6338.5	6976.2	7356.7
20°	469.9	497.9	587.4	861.5	1661.5	2718.9	3910.5	5314.7	6836.4	7614.0	7821.0
22.5°	408.4	430.8	469.9	559.4	934.3	2081.1	3658.7	5521.7	7513.3	8246.2	8682.5
25°	346.9	369.2	402.8	458.7	598.6	1415.4	3351.1	5739.9	8117.5	9040.6	9449.0
27.5°	302.1	318.9	352.4	397.2	486.7	900.7	2819.6	6030.8	9040.6	10002.8	10109.1
30°	257.3	274.1	302.1	352.4	414.0	637.8	2069.9	6069.9	9549.7	10422.4	10718.9
32.5°	223.8	229.4	262.9	307.7	346.9	503.5	1454.5	6109.1	9924.5	10965.1	11026.6
35°	184.6	195.8	229.4	257.3	302.1	397.2	1102.1	5913.3	10411.2	11524.5	11507.7
37.5°	151.0	167.8	190.2	212.6	246.2	335.7	878.3	5549.7	11021.0	12391.6	11865.8
40°	117.5	134.3	156.6	184.6	207.0	302.1	660.1	5001.4	11658.8	12816.8	12257.4
42.5°	83.9	95.1	117.5	145.5	184.6	251.7	475.5	4352.5	11910.5	13314.7	12727.3
45°	61.5	72.7	89.5	123.1	190.2	201.4	330.1	3759.4	12179.0	13532.9	12621.0
47.5°	33.6	44.8	67.1	106.3	167.8	151.0	235.0	3228.0	12486.7	13728.7	12704.9
50°	11.2	16.8	39.2	111.9	134.3	117.5	184.6	2942.7	12788.8	13767.9	12872.8
52.5°	0.0	0.0	22.4	117.5	100.7	89.5	162.2	2830.8	12710.5	13890.9	12766.5
55°	0.0	0.0	5.6	50.3	55.9	67.1	134.3	2825.2	13264.4	13930.1	13348.3
57.5°	0.0	0.0	0.0	16.8	33.6	55.9	117.5	2646.2	13616.8	14903.5	14131.5
60°	0.0	0.0	0.0	5.6	22.4	39.2	89.5	2489.5	13974.9	15339.9	14970.7
62.5°	0.0	0.0	0.0	0.0	5.6	16.8	61.5	2249.0	13253.2	15306.3	15781.9
65°	0.0	0.0	0.0	0.0	0.0	0.0	39.2	1779.0	11921.7	14506.3	15334.3
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	22.4	1230.8	10439.2	13499.3	14511.9
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	744.1	8425.2	11837.8	12307.7
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	318.9	6014.0	9398.6	10097.9
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	128.7	3720.3	6869.9	7731.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.3	2411.2	5202.8	5868.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.2	1286.7	3261.5	3793.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	559.4	1980.4	2282.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	179.0	1202.8	1370.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	184.6	246.2
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°	7932.9	7932.9	7932.9	7932.9	7932.9	7932.9	7932.9	7932.9	7932.9	7932.9
2.5°	8542.7	8704.9	8766.5	8671.3	8682.5	8486.7	8458.8	8184.6	8072.7	8095.1
5°	8934.3	9169.3	9297.9	9191.6	8951.1	8576.2	8235.0	7910.5	7709.1	7608.4
7.5°	8844.8	9107.7	9270.0	9370.6	9096.5	8492.3	7972.0	7362.3	7104.9	7110.5
10°	8352.5	8900.7	9230.8	9102.1	8973.4	8369.2	7563.7	6903.5	6674.1	6696.5
12.5°	7955.3	8565.1	8760.9	8861.6	8598.6	8117.5	7574.8	6819.6	6562.3	6405.6
15°	7709.1	8162.3	8173.4	8330.1	8223.8	8223.8	7692.3	6953.9	6730.1	6556.7
17.5°	7709.1	7809.8	7798.6	7854.6	8033.6	8246.2	7988.8	7496.5	7054.6	7026.6
20°	7882.5	7569.2	7496.5	7518.9	7669.9	8302.1	8643.4	8028.0	7748.3	7658.8
22.5°	8285.3	7597.2	7155.3	7076.9	7541.3	8296.5	9063.0	8867.2	8380.4	8307.7
25°	8839.2	7546.9	7065.7	6965.1	7317.5	8497.9	9639.2	9678.3	9236.4	9085.3
27.5°	9365.1	7770.6	7054.6	7032.2	7496.5	8453.2	10036.4	10327.3	9829.4	9706.3
30°	9544.1	7994.4	7261.6	6965.1	7563.7	8615.4	10025.2	10786.0	10461.6	10489.5
32.5°	9756.7	8218.2	7283.9	7166.4	7849.0	8878.3	10344.1	11524.5	11289.5	10959.5
35°	10070.0	8520.3	7496.5	7390.2	8050.4	9113.3	10411.2	12067.2	12028.0	11642.0
37.5°	10338.5	8816.8	7938.5	7955.3	8665.8	9493.7	10707.7	12732.9	12665.8	12402.8
40°	10528.7	9230.8	8626.6	8671.3	9202.8	9918.9	11233.6	13068.6	13566.5	13180.4
42.5°	10556.7	9600.0	9415.4	9773.4	10271.4	10579.0	11446.2	13297.9	14014.0	13762.3
45°	10663.0	10187.4	10702.1	10965.1	11373.5	11160.9	11435.0	13689.5	14047.6	13918.9
47.5°	11076.9	11256.0	11904.9	12704.9	12850.4	12151.1	11703.5	13751.1	14237.8	14221.0
50°	11507.7	12402.8	13314.7	13846.2	14030.8	12833.6	11955.3	13700.7	14489.5	14355.3
52.5°	11988.8	13398.6	14713.3	15367.9	15267.2	13588.8	12240.6	14109.1	14953.9	14909.1
55°	12290.9	13846.2	15614.0	16525.9	16447.6	14433.6	13146.9	14696.5	15563.7	15451.8
57.5°	13090.9	14573.5	16509.1	16934.3	17141.3	15541.3	13779.1	15658.8	16072.8	16195.8
60°	13751.1	15049.0	16744.1	17359.5	17432.2	16201.4	14886.7	16649.0	16721.7	16307.7
62.5°	14718.9	15233.6	16246.2	16800.0	17174.9	16576.3	15882.6	17180.5	16710.5	16682.6
65°	15429.4	14629.4	15317.5	15625.2	15865.8	16005.6	16884.0	17544.1	16503.5	15960.9
67.5°	15032.2	13488.1	13359.5	13376.3	13449.0	14293.7	16548.3	16654.6	15351.1	14903.5
70°	13230.8	11065.8	10892.3	11026.6	10663.0	11681.1	15188.8	15138.5	13544.1	13079.7
72.5°	10702.1	8067.2	7770.6	7955.3	8039.2	9118.9	12777.7	11479.7	9879.7	9516.1
75°	8503.5	5913.3	4990.2	5437.8	5723.1	6640.6	9980.4	7798.6	6897.9	6405.6
77.5°	6679.7	4475.5	3882.5	3703.5	3966.4	4828.0	7261.6	4095.1	3614.0	3384.6
80°	4235.0	3289.5	3569.2	3311.9	3423.8	3446.2	3781.8	1862.9	1482.5	1465.7
82.5°	2551.1	2249.0	2674.1	1471.3	2679.7	2394.4	1572.0	844.8	749.7	749.7
85°	1807.0	1393.0	923.1	598.6	1191.6	1314.7	609.8	436.4	380.4	369.2
87.5°	906.3	430.8	207.0	134.3	151.0	246.2	72.7	33.6	33.6	28.0
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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