

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: McGRAW-EDISON

Report Number: P940794

Luminaire Tested: **GALN-SB4A-740-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940794  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB4A-740-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

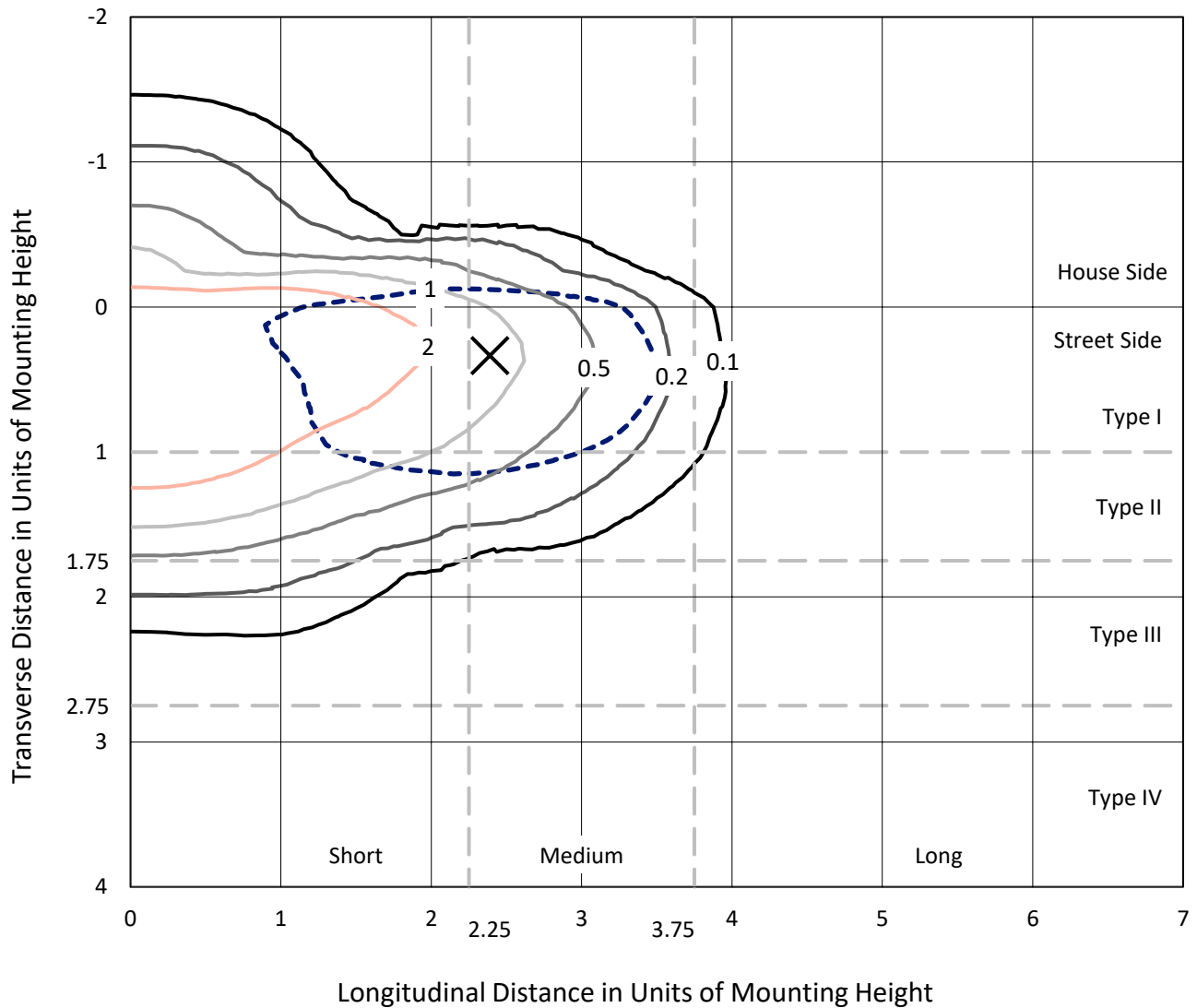
Lumens per Lamp: N/A  
Luminaire Lumens: 13889 lumens  
Efficiency: N/A  
Efficacy: 121.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 114  
Input Voltage (V): NR  
Input Current (Ain): NR  
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: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

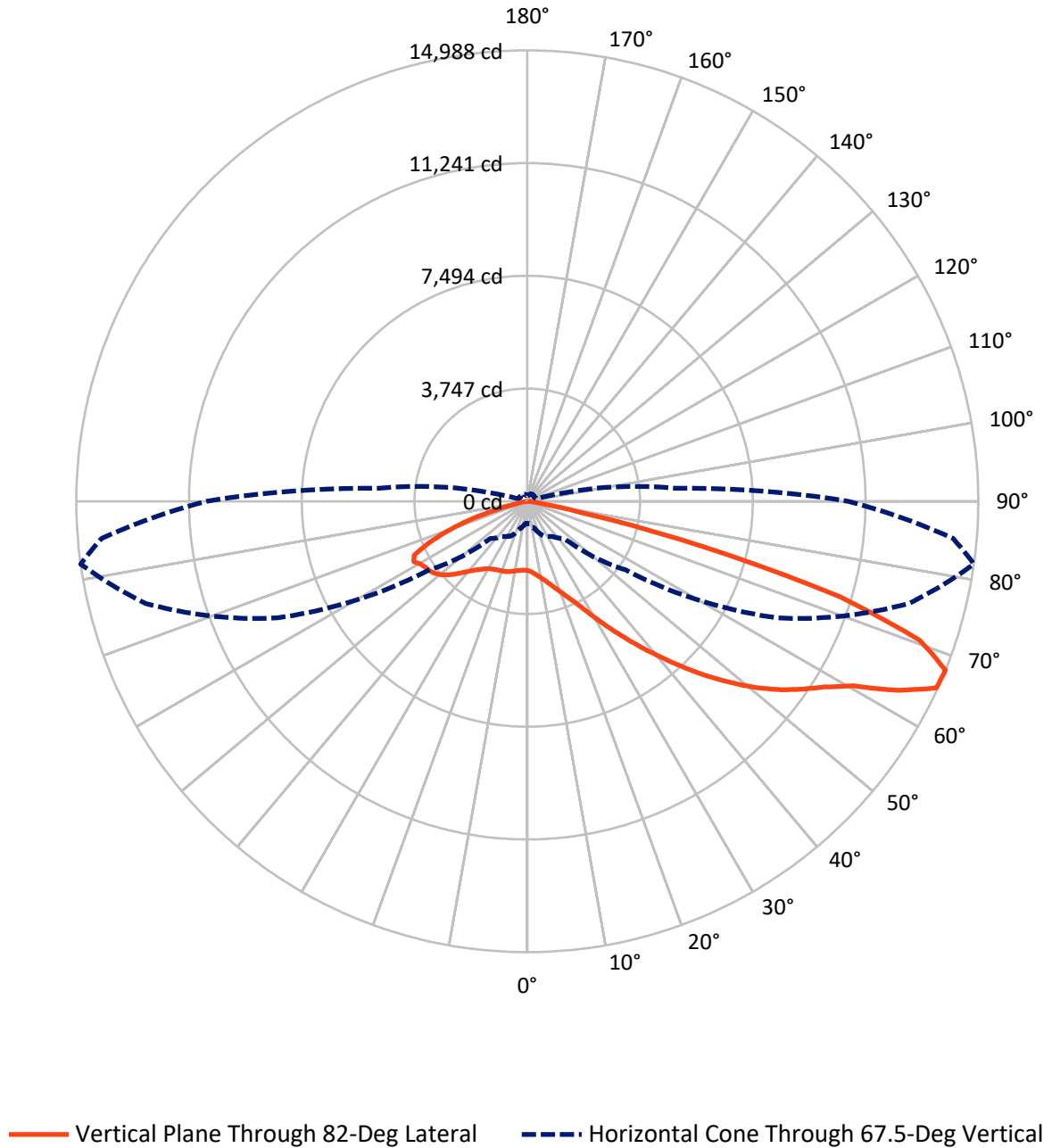
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2515.9	0.0	2515.9
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	11373.1	0.0	11373.1
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	13889.0	0.0	13889.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	205.0	1.5
10°-20°	532.7	3.8
20°-30°	853.2	6.1
30°-40°	1508.8	10.9
40°-50°	2643.5	19.0
50°-60°	3525.7	25.4
60°-70°	3282.2	23.6
70°-80°	1259.7	9.1
80°-90°	78.2	0.6
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°	13889.0	100.0
0°-180°	13889.0	100.0

**Coefficient of Utilization**



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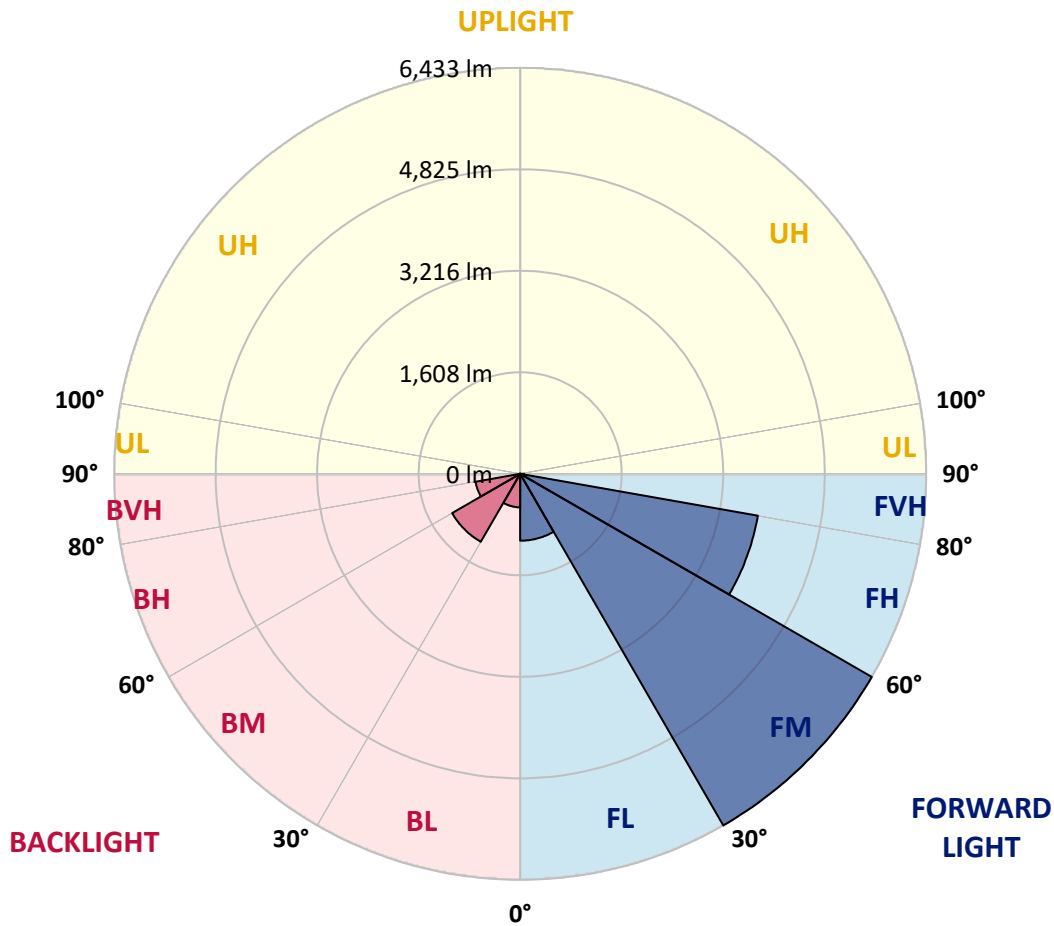
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1059.6	7.6			
FM (30°-60°)	6432.8	46.3			
FH (60°-80°)	3823.9	27.5			G2/5000
FVH (80°-90°)	56.9	0.4			G1/100
BL (0°-30°)	531.4	3.8	B2/1000		
BM (30°-60°)	1245.1	9.0	B2/2500		
BH (60°-80°)	718.1	5.2	B2/1000		G2/1000
BVH (80°-90°)	21.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	2300.9	2300.9	2300.9	2300.9	2300.9	2300.9	2300.9	2300.9	2300.9	2300.9
2.5°	2431.9	2445.9	2437.9	2433.9	2426.9	2416.9	2408.9	2383.9	2357.9	2340.9
5°	2480.9	2494.9	2493.9	2497.9	2502.9	2505.9	2503.9	2475.9	2438.9	2409.9
7.5°	2438.9	2454.9	2467.9	2487.9	2522.9	2559.9	2577.9	2571.9	2533.9	2493.9
10°	2319.9	2336.9	2367.9	2414.9	2488.9	2568.9	2635.9	2666.9	2642.9	2598.9
12.5°	2101.9	2118.9	2179.9	2281.9	2405.9	2544.9	2672.9	2755.9	2761.9	2717.9
15°	1856.9	1873.9	1938.9	2066.9	2255.9	2478.9	2692.9	2849.9	2902.9	2864.9
17.5°	1705.0	1720.0	1769.0	1871.9	2068.9	2346.9	2685.9	2949.9	3070.9	3040.9
20°	1659.0	1672.0	1695.0	1767.0	1930.9	2209.9	2639.9	3043.9	3251.9	3234.9
22.5°	1708.0	1720.0	1727.0	1759.0	1861.9	2119.9	2581.9	3139.9	3461.9	3463.9
25°	1821.0	1833.0	1825.0	1844.9	1889.9	2091.9	2559.9	3252.9	3725.9	3747.9
27.5°	2006.9	2007.9	1988.9	1987.9	1994.9	2133.9	2582.9	3373.9	4058.9	4099.9
30°	2379.9	2364.9	2291.9	2212.9	2176.9	2259.9	2646.9	3516.9	4451.9	4524.9
32.5°	2954.9	2932.9	2798.9	2609.9	2419.9	2462.9	2761.9	3679.9	4879.9	5011.9
35°	3578.9	3572.9	3432.9	3151.9	2819.9	2751.9	2948.9	3893.9	5346.9	5556.8
37.5°	4158.9	4155.9	4075.9	3744.9	3340.9	3154.9	3248.9	4173.9	5846.8	6150.8
40°	4688.9	4697.9	4617.9	4321.9	3914.9	3671.9	3656.9	4519.9	6402.8	6797.8
42.5°	5146.9	5156.9	5075.9	4856.9	4481.9	4243.9	4157.9	4943.9	6945.8	7492.8
45°	5457.9	5519.8	5507.8	5332.9	5063.9	4816.9	4759.9	5475.9	7564.8	8229.8
47.5°	5545.8	5602.8	5692.8	5716.8	5552.8	5309.9	5377.9	6116.8	8190.8	8967.8
50°	5328.9	5381.9	5568.8	5817.8	5931.8	5856.8	5978.8	6803.8	8831.8	9703.7
52.5°	4900.9	4954.9	5190.9	5584.8	6049.8	6285.8	6581.8	7480.8	9452.7	10400.7
55°	4281.9	4338.9	4641.9	5087.9	5824.8	6462.8	7084.8	8156.8	10021.7	11027.7
57.5°	3439.9	3481.9	3796.9	4420.9	5258.9	6286.8	7455.8	8894.8	10557.7	11643.7
60°	2241.9	2278.9	2644.9	3340.9	4320.9	5698.8	7529.8	9717.7	11269.7	12444.7
62.5°	1491.0	1516.0	1733.0	2243.9	3042.9	4569.9	7096.8	10374.7	12313.7	13838.6
65°	1023.0	1048.0	1265.0	1621.0	1965.9	3022.9	5851.8	10287.7	13259.6	14945.6
67.5°	730.0	751.0	935.0	1271.0	1423.0	1756.0	3966.9	9175.7	13123.6	14987.6
70°	523.0	535.0	687.0	990.0	1131.0	1055.0	2205.9	7017.8	11490.7	13839.6
72.5°	366.0	370.0	477.0	754.0	911.0	770.0	1050.0	4678.9	8690.8	10862.7
75°	248.0	253.0	321.0	553.0	731.0	588.0	556.0	2508.9	5101.9	6012.8
77.5°	152.0	154.0	207.0	378.0	547.0	448.0	358.0	1063.0	1973.9	1937.9
80°	86.0	86.0	132.0	235.0	373.0	289.0	251.0	452.0	625.0	549.0
82.5°	48.0	49.0	96.0	146.0	247.0	171.0	138.0	209.0	270.0	239.0
85°	20.0	22.0	59.0	69.0	118.0	85.0	56.0	88.0	100.0	89.0
87.5°	2.0	3.0	18.0	13.0	14.0	17.0	8.0	17.0	14.0	14.0
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°
2300.9	0°	2300.9	2300.9	2300.9	2300.9	2300.9	2300.9	2300.9	2300.9	2300.9	2300.9
2334.9	2.5°	2315.9	2300.9	2262.9	2218.9	2160.9	2132.9	2094.9	2068.9	2046.9	2048.9
2392.9	5°	2360.9	2322.9	2237.9	2131.9	1999.9	1905.9	1806.0	1737.0	1681.0	1669.0
2472.9	7.5°	2422.9	2362.9	2213.9	2022.9	1800.0	1631.0	1480.0	1383.0	1314.0	1292.0
2569.9	10°	2502.9	2415.9	2182.9	1885.9	1565.0	1350.0	1188.0	1112.0	1065.0	1049.0
2683.9	12.5°	2595.9	2476.9	2141.9	1719.0	1323.0	1116.0	1013.0	975.0	960.0	955.0
2823.9	15°	2712.9	2552.9	2079.9	1521.0	1118.0	973.0	929.0	924.0	926.0	924.0
2991.9	17.5°	2851.9	2635.9	1978.9	1317.0	980.0	900.0	884.0	888.0	893.0	892.0
3179.9	20°	3003.9	2717.9	1849.9	1136.0	886.0	848.0	839.0	843.0	847.0	845.0
3396.9	22.5°	3176.9	2805.9	1707.0	995.0	823.0	800.0	790.0	791.0	791.0	787.0
3671.9	25°	3383.9	2902.9	1557.0	895.0	775.0	757.0	745.0	741.0	735.0	723.0
4005.9	27.5°	3630.9	3005.9	1413.0	825.0	737.0	720.0	706.0	696.0	681.0	661.0
4406.9	30°	3908.9	3130.9	1291.0	781.0	707.0	690.0	674.0	659.0	637.0	612.0
4867.9	32.5°	4235.9	3264.9	1202.0	752.0	680.0	662.0	643.0	625.0	601.0	576.0
5385.9	35°	4625.9	3426.9	1150.0	732.0	659.0	635.0	614.0	594.0	576.0	554.0
5948.8	37.5°	5048.9	3598.9	1134.0	722.0	645.0	608.0	584.0	570.0	568.0	555.0
6557.8	40°	5511.8	3802.9	1146.0	716.0	630.0	582.0	556.0	553.0	558.0	535.0
7208.8	42.5°	6001.8	4044.9	1166.0	709.0	609.0	556.0	531.0	531.0	527.0	495.0
7896.8	45°	6531.8	4323.9	1186.0	692.0	584.0	530.0	511.0	504.0	487.0	456.0
8588.8	47.5°	7065.8	4607.9	1201.0	661.0	554.0	508.0	491.0	475.0	450.0	422.0
9267.7	50°	7572.8	4862.9	1185.0	615.0	520.0	487.0	469.0	447.0	420.0	401.0
9910.7	52.5°	8025.8	5083.9	1117.0	561.0	484.0	465.0	449.0	426.0	404.0	384.0
10490.7	55°	8419.8	5262.9	997.0	510.0	452.0	446.0	430.0	401.0	371.0	354.0
11065.7	57.5°	8797.8	5398.9	847.0	468.0	423.0	425.0	401.0	375.0	347.0	329.0
11840.7	60°	9300.7	5580.8	695.0	429.0	392.0	398.0	372.0	353.0	318.0	295.0
13169.6	62.5°	10104.7	5863.8	552.0	381.0	356.0	358.0	347.0	324.0	282.0	255.0
14154.6	65°	10742.7	5759.8	435.0	329.0	315.0	318.0	318.0	293.0	248.0	217.0
14207.6	67.5°	10670.7	4931.9	347.0	278.0	276.0	278.0	285.0	264.0	220.0	195.0
13125.6	70°	9829.7	3922.9	278.0	231.0	240.0	235.0	255.0	241.0	198.0	173.0
10175.7	72.5°	8020.8	2825.9	212.0	191.0	184.0	192.0	230.0	217.0	165.0	137.0
5389.9	75°	4686.9	1508.0	158.0	151.0	133.0	160.0	204.0	185.0	126.0	101.0
1652.0	77.5°	1526.0	526.0	116.0	111.0	99.0	129.0	174.0	156.0	103.0	80.0
484.0	80°	409.0	159.0	79.0	73.0	64.0	96.0	138.0	124.0	74.0	52.0
208.0	82.5°	164.0	67.0	46.0	41.0	35.0	66.0	109.0	100.0	55.0	33.0
65.0	85°	53.0	22.0	17.0	13.0	16.0	41.0	65.0	68.0	39.0	17.0
10.0	87.5°	7.0	3.0	3.0	4.0	3.0	7.0	20.0	19.0	11.0	2.0
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

180°
2300.9
2028.9
1642.0
1270.0
1037.0
952.0
923.0
890.0
844.0
785.0
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659.0
610.0
577.0
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