

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: P944306

Luminaire Tested: **GALN-SB9A-940-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944306  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB9A-940-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

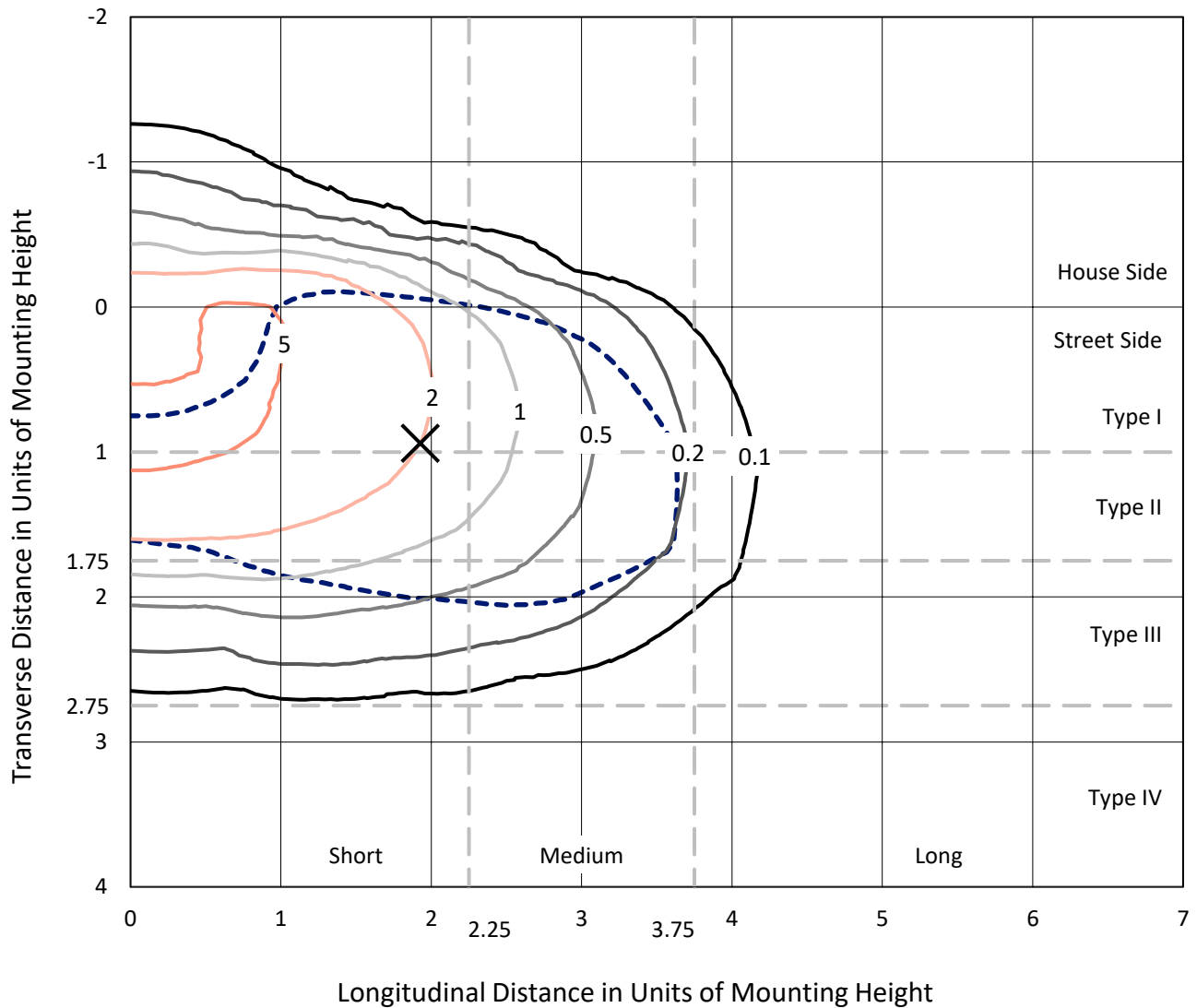
Lumens per Lamp: N/A  
Luminaire Lumens: 23220 lumens  
Efficiency: N/A  
Efficacy: 90.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 255.5  
Input Voltage (V): NR  
Input Current (Ain): 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

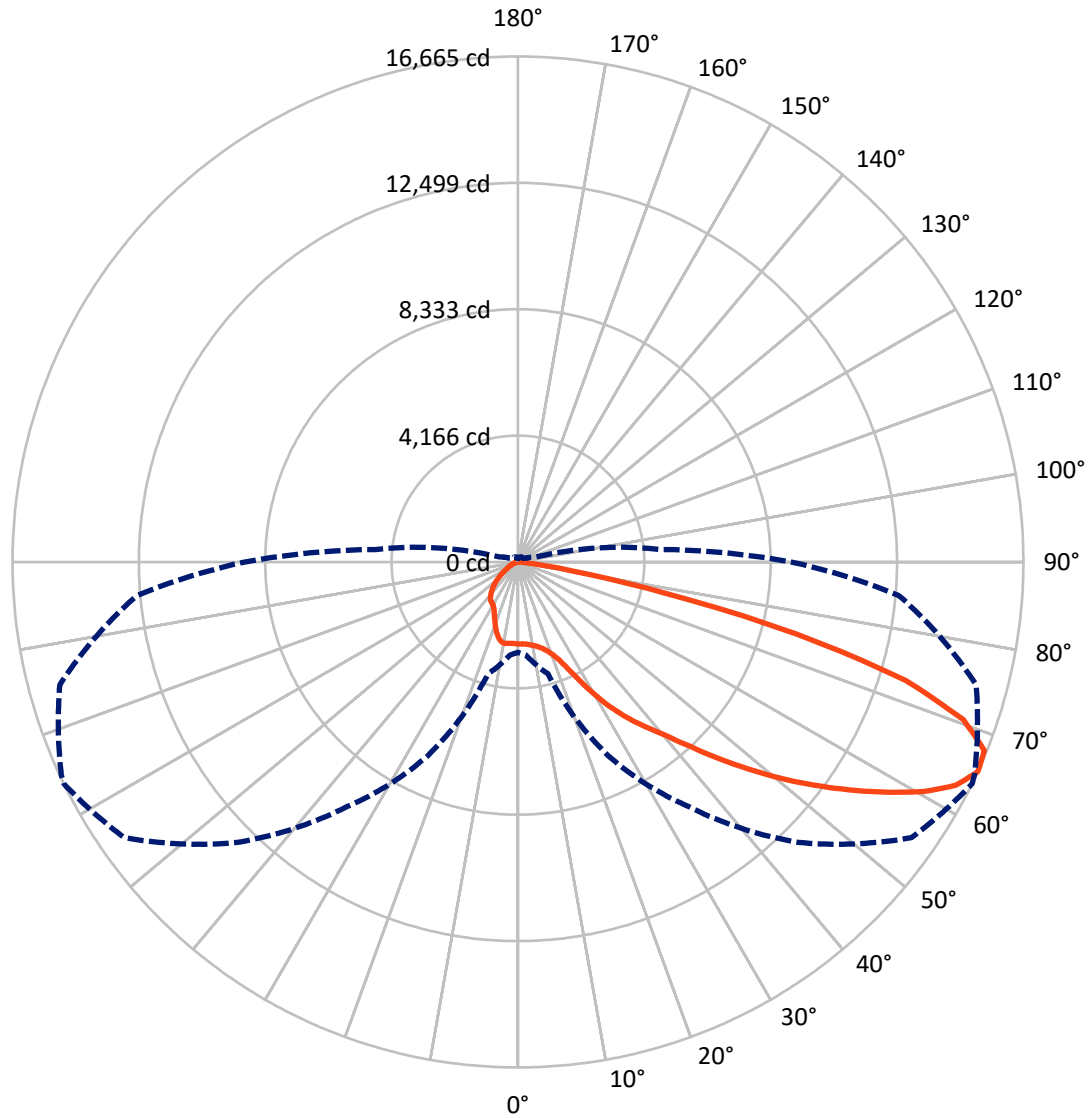
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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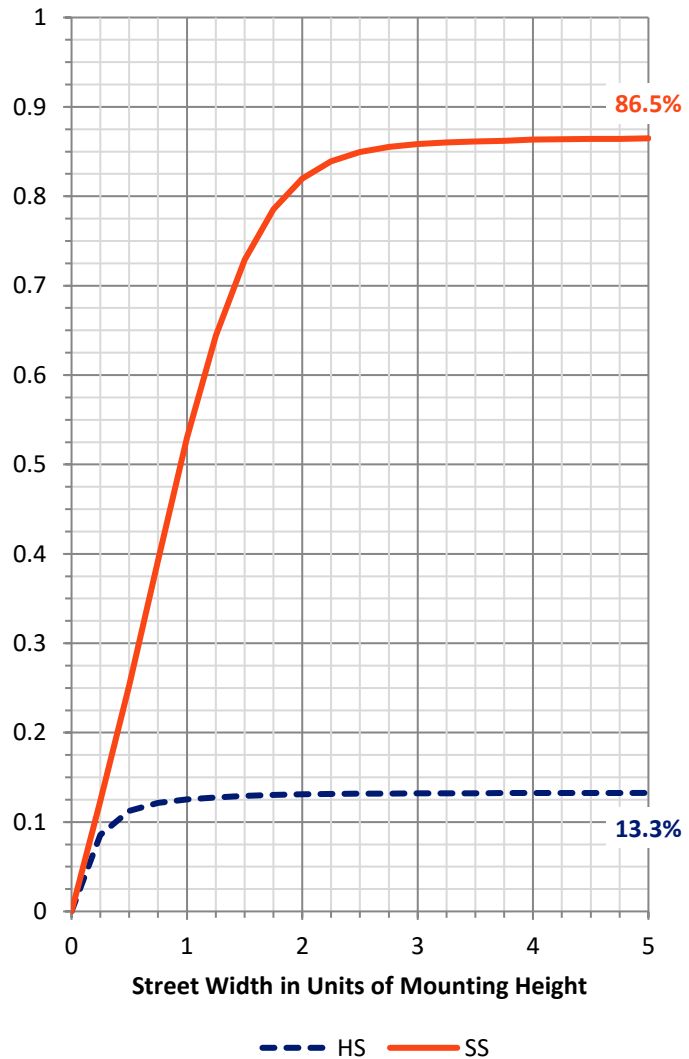
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3105.2	0.0	3105.2
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	20114.8	0.0	20114.8
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	23220.0	0.0	23220.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	249.2	1.1
10°-20°	675.8	2.9
20°-30°	1280.6	5.5
30°-40°	2591.4	11.2
40°-50°	4414.4	19.0
50°-60°	6003.3	25.9
60°-70°	5637.4	24.3
70°-80°	2258.6	9.7
80°-90°	109.4	0.5
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°	23220.0	100.0
0°-180°	23220.0	100.0

**Coefficient of Utilization**



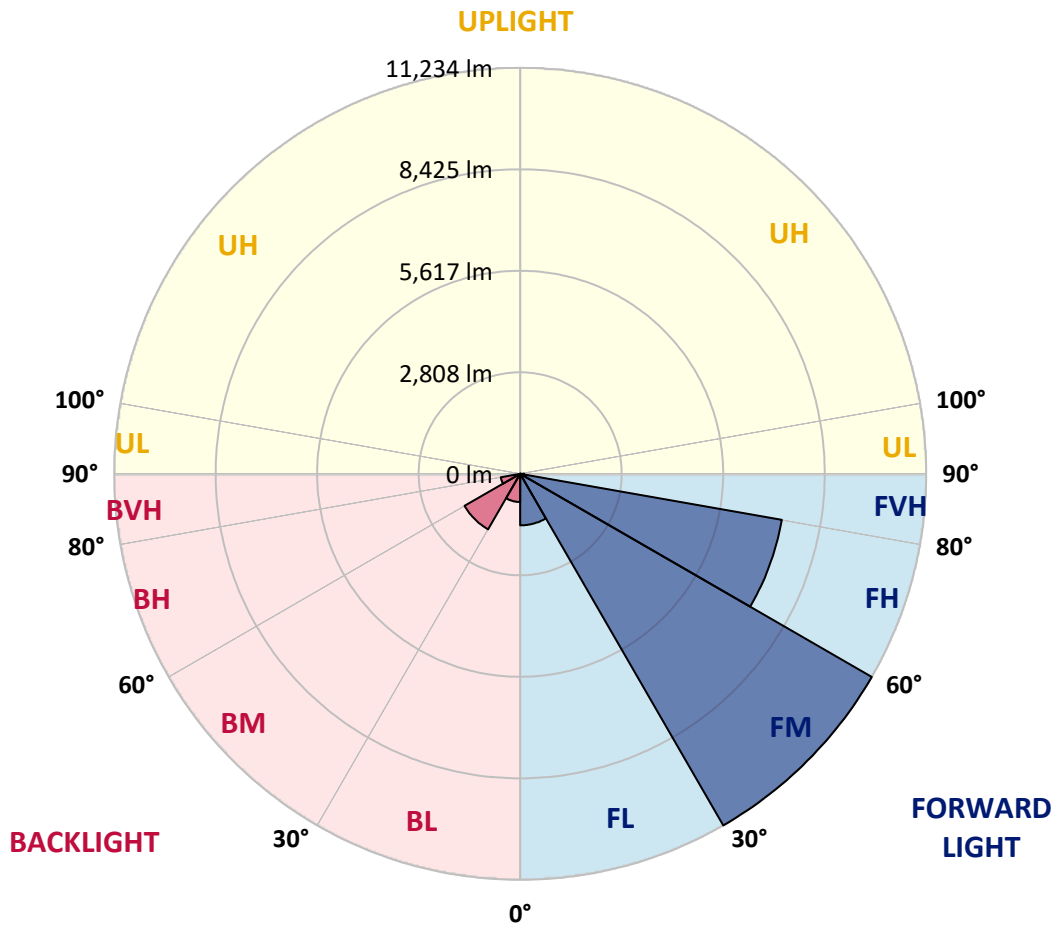
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1426.0	6.1			
FM (30°-60°)	11233.8	48.4			
FH (60°-80°)	7350.9	31.7			G3/7500
FVH (80°-90°)	104.1	0.4			G2/225
BL (0°-30°)	779.6	3.4	B2/1000		
BM (30°-60°)	1775.2	7.6	B2/2500		
BH (60°-80°)	545.0	2.3	B2/1000		G2/1000
BVH (80°-90°)	5.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	2700.7	2700.7	2700.7	2700.7	2700.7	2700.7	2700.7	2700.7	2700.7	2700.7
2.5°	2691.4	2710.1	2705.4	2700.7	2699.2	2702.3	2703.8	2702.3	2702.3	2702.3
5°	2640.0	2655.6	2655.6	2666.5	2682.0	2700.7	2714.7	2717.8	2721.0	2725.6
7.5°	2542.0	2554.4	2563.7	2599.5	2638.5	2688.3	2730.3	2752.1	2755.2	2772.3
10°	2475.0	2490.6	2506.2	2543.5	2599.5	2674.3	2745.9	2798.8	2806.6	2847.0
12.5°	2471.9	2487.5	2507.7	2548.2	2613.6	2692.9	2780.1	2856.4	2870.4	2929.5
15°	2504.6	2523.3	2542.0	2591.8	2661.8	2758.3	2851.7	2946.7	2960.7	3044.7
17.5°	2571.5	2596.4	2610.4	2660.3	2735.0	2842.4	2965.4	3074.3	3086.8	3184.8
20°	2703.8	2733.4	2738.1	2778.6	2851.7	2966.9	3113.2	3248.7	3264.2	3376.3
22.5°	2977.8	3019.8	2982.5	3002.7	3068.1	3183.3	3342.1	3513.3	3535.1	3662.7
25°	3460.4	3519.5	3423.0	3388.8	3416.8	3536.6	3735.9	3952.2	3977.2	4079.9
27.5°	4408.3	4332.1	4185.7	4042.5	3958.5	4027.0	4251.1	4518.9	4550.0	4649.6
30°	5449.7	5382.8	5185.1	4867.5	4668.3	4657.4	4864.4	5163.3	5199.1	5294.0
32.5°	6492.6	6428.8	6214.0	5823.3	5477.7	5306.5	5449.7	5781.3	5799.9	5860.7
35°	7518.5	7453.1	7238.3	6838.2	6413.3	6024.1	5996.1	6369.7	6375.9	6439.7
37.5°	8550.5	8496.0	8267.2	7874.9	7456.2	6919.2	6659.2	6926.9	6934.7	6997.0
40°	9286.8	9310.1	9152.9	8849.4	8489.8	7902.9	7403.3	7520.0	7473.3	7577.6
42.5°	9918.8	9965.4	9828.5	9675.9	9467.3	8950.5	8324.8	8304.5	8229.8	8285.9
45°	10465.1	10504.0	10381.1	10345.3	10340.6	9977.9	9331.9	9210.5	9106.2	9095.3
47.5°	10665.9	10740.6	10793.6	10913.4	11146.9	10994.4	10373.3	10184.9	10068.2	9982.6
50°	10742.2	10821.6	11002.2	11350.8	11903.4	11968.8	11410.0	11198.3	11055.1	10899.4
52.5°	10639.5	10781.1	11023.9	11610.8	12412.4	12750.2	12404.7	12219.4	12056.0	11802.3
55°	10033.9	10175.6	10672.2	11607.7	12666.2	13298.2	13344.9	13262.4	13078.7	12678.6
57.5°	8757.5	8967.7	9753.7	11212.3	12661.5	13769.8	14266.4	14325.5	14120.1	13547.2
60°	6989.2	7274.1	8232.9	10335.9	12270.8	14025.1	15074.3	15370.0	15152.1	14403.4
62.5°	4876.9	5206.9	6114.4	8963.0	11377.3	13841.4	15664.2	16210.6	16045.6	15169.2
65°	2974.7	3080.5	3812.2	7053.0	9858.0	13072.5	15846.3	16665.1	16610.6	15637.8
67.5°	1981.6	2070.3	2280.4	4836.4	7652.3	11536.1	15410.5	16585.7	16601.3	15561.5
70°	1193.9	1270.2	1407.2	2812.8	4959.4	9131.1	14060.9	15573.9	15664.2	14541.9
72.5°	491.9	543.3	667.8	1274.9	2568.4	5795.3	11196.7	13371.3	13581.5	12227.2
75°	278.6	305.1	392.3	639.8	1114.5	2700.7	6782.2	9492.2	9802.0	8427.5
77.5°	185.2	197.7	253.7	414.1	627.3	921.5	2898.4	4945.4	5536.9	4602.9
80°	124.5	135.4	174.3	277.1	407.8	395.4	923.1	1832.1	2254.0	1581.5
82.5°	84.1	85.6	124.5	182.1	258.4	191.5	272.4	569.7	716.0	457.6
85°	48.3	46.7	91.8	105.8	115.2	79.4	82.5	171.2	224.2	193.0
87.5°	6.2	9.3	35.8	28.0	15.6	17.1	17.1	29.6	43.6	46.7
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°
2700.7	0°	2700.7	2700.7	2700.7	2700.7	2700.7	2700.7	2700.7	2700.7	2700.7	2700.7
2703.8	2.5°	2703.8	2702.3	2697.6	2692.9	2682.0	2675.8	2678.9	2675.8	2674.3	2675.8
2724.1	5°	2724.1	2719.4	2707.0	2691.4	2669.6	2643.1	2626.0	2601.1	2577.8	2563.7
2778.6	7.5°	2778.6	2773.9	2756.8	2713.2	2643.1	2532.6	2431.4	2342.7	2275.8	2236.9
2865.7	10°	2865.7	2857.9	2831.5	2735.0	2551.3	2310.0	2109.2	1942.7	1833.7	1782.3
2968.5	12.5°	2968.5	2959.1	2912.4	2714.7	2377.0	2000.3	1723.2	1537.9	1436.8	1391.6
3086.8	15°	3089.9	3077.4	2985.6	2618.2	2123.2	1657.8	1404.1	1265.5	1200.2	1159.7
3237.8	17.5°	3240.9	3219.1	3040.1	2473.5	1847.7	1396.3	1207.9	1103.6	1046.0	1007.1
3435.4	20°	3437.0	3401.2	3083.7	2300.7	1594.0	1231.3	1075.6	988.5	944.9	910.6
3715.6	22.5°	3711.0	3659.6	3136.6	2113.9	1415.0	1117.6	977.6	913.7	877.9	839.0
4106.4	25°	4050.3	3989.6	3202.0	1941.1	1292.0	1019.6	905.9	853.0	811.0	765.9
4618.5	27.5°	4525.1	4416.1	3279.8	1799.4	1186.1	935.5	840.6	781.4	733.2	695.8
5199.1	30°	5054.3	4875.3	3348.3	1713.8	1089.6	857.7	755.0	695.8	650.7	624.2
5720.6	32.5°	5555.6	5312.7	3393.4	1676.5	1002.5	769.0	661.6	597.7	563.5	555.7
6231.1	35°	6028.8	5708.1	3388.8	1640.7	924.6	680.2	569.7	504.3	477.9	482.6
6780.6	37.5°	6573.6	6130.0	3356.1	1584.6	860.8	599.3	490.3	432.7	409.4	410.9
7448.4	40°	7207.1	6617.2	3335.8	1478.8	790.8	524.6	425.0	378.3	361.1	354.9
8152.0	42.5°	7882.7	7088.8	3338.9	1358.9	703.6	457.6	379.8	340.9	325.3	320.7
8935.0	45°	8561.4	7538.7	3343.6	1234.4	611.7	406.3	347.1	314.4	305.1	298.9
9728.8	47.5°	9199.6	7921.6	3256.4	1100.5	521.5	367.4	320.7	298.9	291.1	283.3
10525.8	50°	9794.2	8176.9	3046.3	944.9	449.9	336.2	300.4	284.9	277.1	269.3
11248.1	52.5°	10256.5	8217.4	2699.2	784.5	400.1	312.9	288.0	274.0	264.6	256.8
11831.8	55°	10462.0	7963.6	2205.7	635.1	361.1	292.6	275.5	261.5	250.6	242.8
12291.0	57.5°	10409.1	7429.7	1720.1	510.6	323.8	272.4	260.0	250.6	238.2	225.7
12663.1	60°	10149.1	6715.2	1296.7	425.0	289.5	250.6	242.8	235.0	217.9	199.2
12806.3	62.5°	9699.3	5817.1	924.6	351.8	252.2	225.7	222.6	216.4	191.5	157.2
12594.6	65°	9011.2	4725.9	622.6	292.6	216.4	197.7	199.2	188.4	155.7	116.7
11819.4	67.5°	8005.7	3455.7	398.5	239.7	180.6	165.0	166.6	160.3	132.3	99.6
10349.9	70°	6724.6	2288.2	260.0	182.1	144.8	127.6	137.0	138.5	112.1	80.9
7943.4	72.5°	4929.8	1351.1	182.1	135.4	105.8	88.7	112.1	115.2	90.3	60.7
4778.8	75°	2809.7	641.3	137.0	98.1	65.4	62.3	87.2	87.2	62.3	40.5
2068.7	77.5°	1179.9	267.7	96.5	63.8	37.4	35.8	59.2	54.5	31.1	18.7
504.3	80°	340.9	119.9	51.4	31.1	15.6	14.0	23.3	17.1	7.8	3.1
191.5	82.5°	133.9	52.9	20.2	12.5	6.2	6.2	3.1	0.0	0.0	0.0
109.0	85°	79.4	21.8	9.3	4.7	1.6	0.0	0.0	0.0	0.0	0.0
23.3	87.5°	20.2	4.7	3.1	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

(END O

180°
2700.7
2682.0
2566.9
2238.4
1777.7
1386.9
1161.2
1004.0
904.4
832.8
761.2
688.0
619.5
560.4
482.6
417.2
353.4
319.1
298.9
283.3
269.3
255.3
241.3
224.2
196.1
154.1
113.6
95.0
77.8
57.6
37.4
18.7
3.1
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