

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: P942906

Luminaire Tested: **GALN-SB7A-850-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942906
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-SB7A-850-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 5000K, 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: 23932 lumens
Efficiency: N/A
Efficacy: 120.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

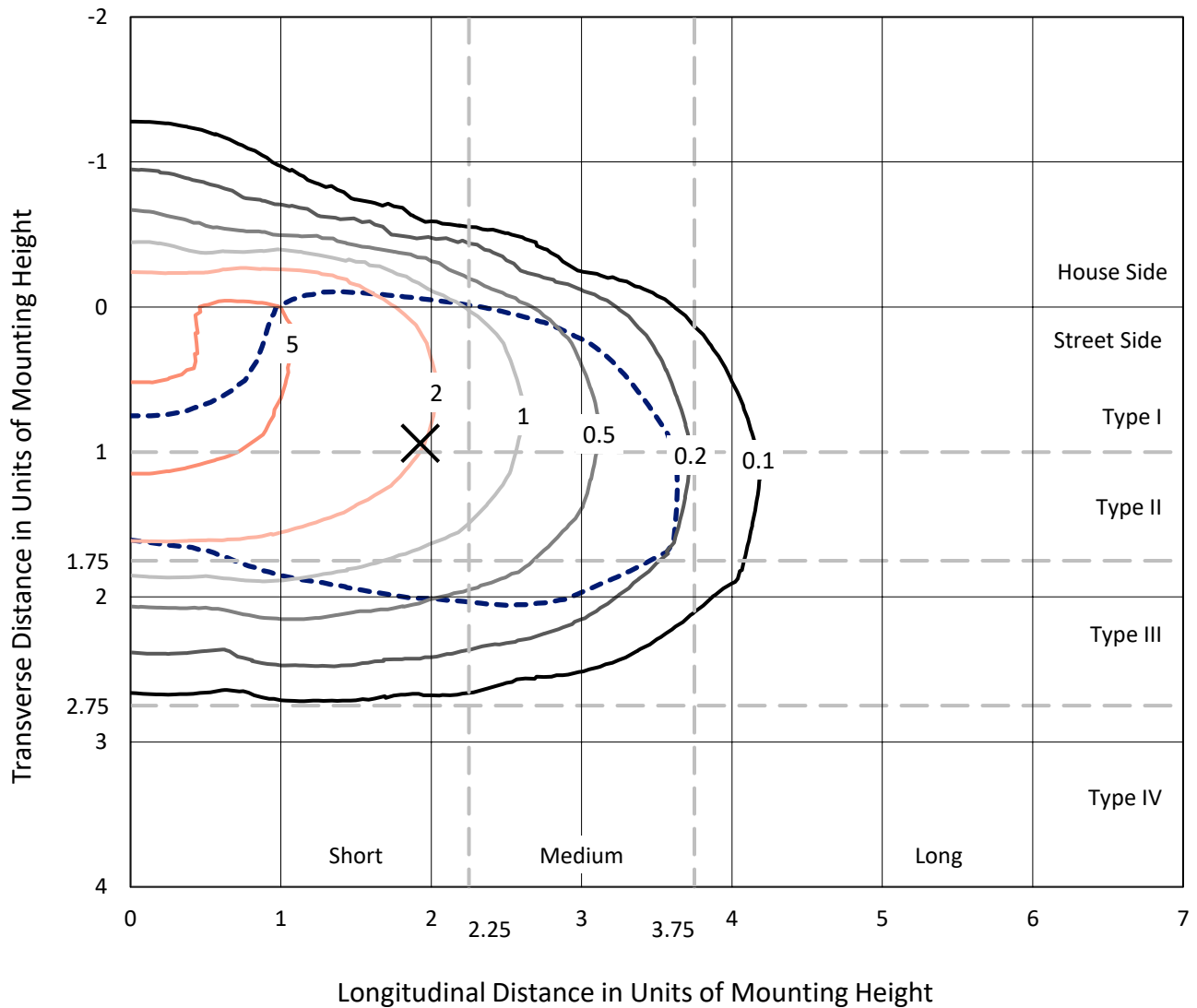
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

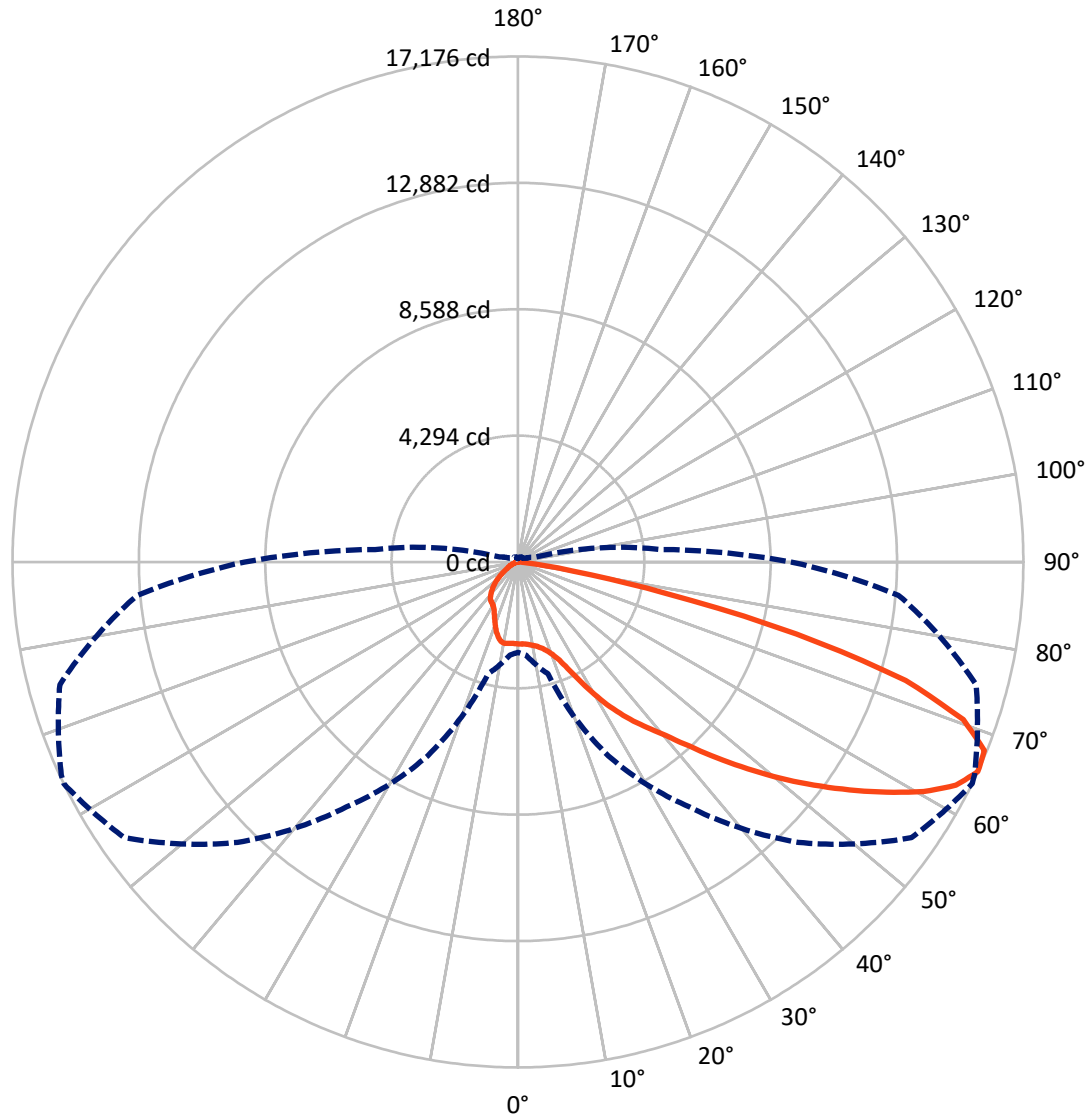
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 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
House Side	Lumens	3200.4	0.0	3200.4
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	20731.6	0.0	20731.6
	% Fixture	86.6	0.0	86.6
Total	Lumens	23932.0	0.0	23932.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.8	1.1
10°-20°	696.5	2.9
20°-30°	1319.9	5.5
30°-40°	2670.8	11.2
40°-50°	4549.8	19.0
50°-60°	6187.3	25.9
60°-70°	5810.2	24.3
70°-80°	2327.8	9.7
80°-90°	112.8	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°	23932.0	100.0
0°-180°	23932.0	100.0

Coefficient of Utilization



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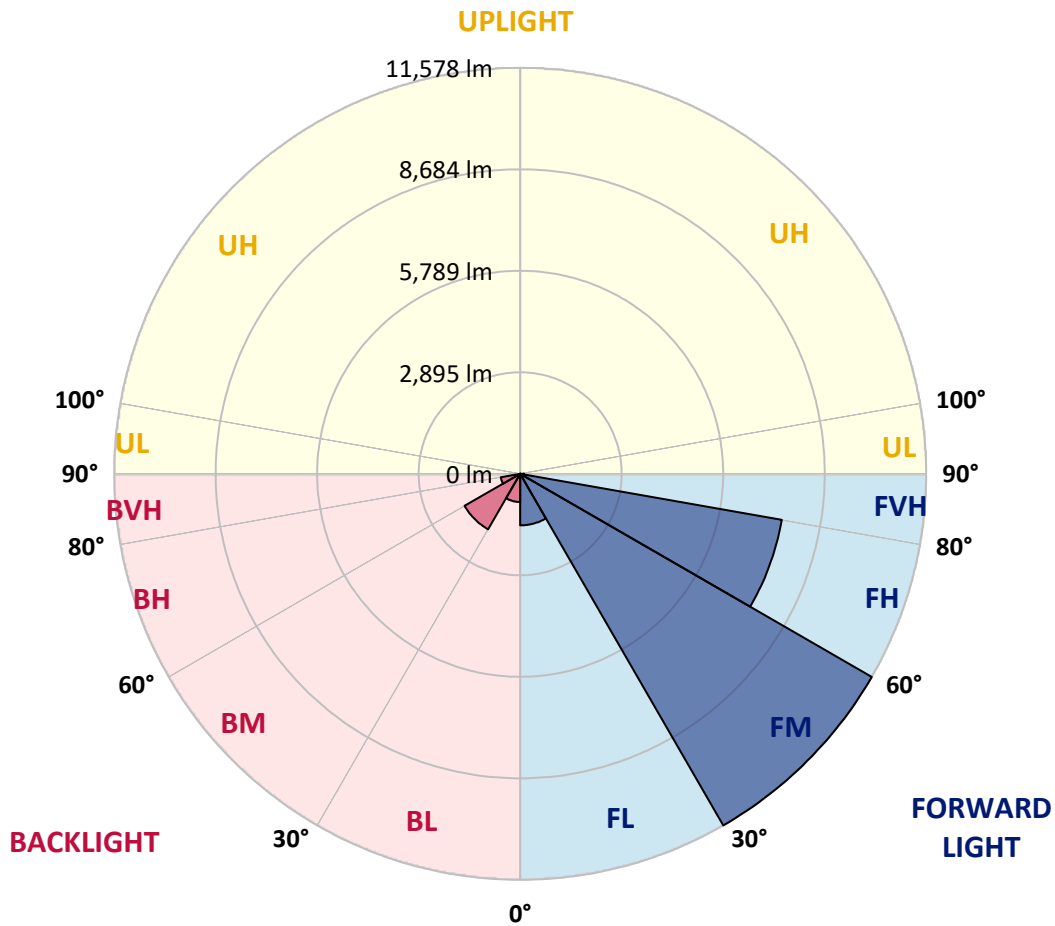
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1469.7	6.1			
FM (30°-60°)	11578.3	48.4			
FH (60°-80°)	7576.3	31.7			G4/12000
FVH (80°-90°)	107.3	0.4			G2/225
BL (0°-30°)	803.5	3.4	B2/1000		
BM (30°-60°)	1829.7	7.6	B2/2500		
BH (60°-80°)	561.7	2.3	B2/1000		G2/1000
BVH (80°-90°)	5.5	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-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	2783.5	2783.5	2783.5	2783.5	2783.5	2783.5	2783.5	2783.5	2783.5	2783.5
2.5°	2773.9	2793.2	2788.4	2783.5	2781.9	2785.1	2786.7	2785.1	2785.1	2785.1
5°	2721.0	2737.0	2737.0	2748.2	2764.3	2783.5	2798.0	2801.2	2804.4	2809.2
7.5°	2619.9	2632.7	2642.4	2679.3	2719.4	2770.7	2814.0	2836.5	2839.7	2857.3
10°	2550.9	2567.0	2583.0	2621.5	2679.3	2756.3	2830.1	2884.6	2892.6	2934.3
12.5°	2547.7	2563.7	2584.6	2626.3	2693.7	2775.5	2865.4	2944.0	2958.4	3019.4
15°	2581.4	2600.6	2619.9	2671.2	2743.4	2842.9	2939.2	3037.0	3051.5	3138.1
17.5°	2650.4	2676.0	2690.5	2741.8	2818.8	2929.5	3056.3	3168.6	3181.4	3282.5
20°	2786.7	2817.2	2822.0	2863.8	2939.2	3057.9	3208.7	3348.3	3364.3	3479.8
22.5°	3069.1	3112.4	3073.9	3094.8	3162.2	3280.9	3444.5	3621.0	3643.5	3775.0
25°	3566.5	3627.4	3528.0	3492.7	3521.5	3645.1	3850.4	4073.4	4099.1	4205.0
27.5°	4543.5	4464.9	4314.1	4166.5	4079.9	4150.4	4381.5	4657.4	4689.5	4792.2
30°	5616.8	5547.8	5344.1	5016.8	4811.4	4800.2	5013.6	5321.6	5358.5	5456.4
32.5°	6691.7	6625.9	6404.5	6001.9	5645.7	5469.2	5616.8	5958.5	5977.8	6040.4
35°	7749.0	7681.6	7460.2	7047.9	6609.9	6208.8	6179.9	6565.0	6571.4	6637.2
37.5°	8812.7	8756.5	8520.7	8116.4	7684.8	7131.3	6863.4	7139.3	7147.4	7211.5
40°	9571.5	9595.6	9433.6	9120.7	8750.1	8145.3	7630.3	7750.6	7702.5	7810.0
42.5°	10222.9	10271.0	10129.8	9972.6	9757.6	9225.0	8580.0	8559.2	8482.2	8539.9
45°	10786.0	10826.1	10699.4	10662.5	10657.7	10283.9	9618.1	9492.9	9385.4	9374.2
47.5°	10993.0	11070.0	11124.5	11248.1	11488.7	11331.5	10691.4	10497.2	10376.9	10288.7
50°	11071.6	11153.4	11339.5	11698.9	12268.4	12335.8	11759.9	11541.7	11394.1	11233.6
52.5°	10965.7	11111.7	11362.0	11966.8	12793.1	13141.2	12785.0	12594.1	12425.7	12164.2
55°	10341.6	10487.6	10999.4	11963.6	13054.6	13705.9	13754.1	13669.0	13479.7	13067.4
57.5°	9026.0	9242.6	10052.8	11556.1	13049.7	14192.0	14703.8	14764.8	14553.0	13962.6
60°	7203.5	7497.1	8485.4	10652.9	12647.1	14455.2	15536.5	15841.3	15616.7	14845.0
62.5°	5026.4	5366.5	6301.9	9237.8	11726.2	14265.8	16144.5	16707.7	16537.6	15634.4
65°	3065.9	3175.0	3929.0	7269.3	10160.3	13473.3	16332.2	17176.1	17120.0	16117.3
67.5°	2042.3	2133.8	2350.4	4984.7	7887.0	11889.8	15883.0	17094.3	17110.3	16038.6
70°	1230.5	1309.1	1450.3	2899.1	5111.4	9411.1	14492.1	16051.5	16144.5	14987.8
72.5°	507.0	559.9	688.3	1314.0	2647.2	5973.0	11540.1	13781.3	13997.9	12602.1
75°	287.2	314.5	404.3	659.4	1148.7	2783.5	6990.1	9783.3	10102.6	8685.9
77.5°	190.9	203.8	261.5	426.8	646.6	949.8	2987.3	5097.0	5706.7	4744.1
80°	128.3	139.6	179.7	285.6	420.3	407.5	951.4	1888.3	2323.1	1630.0
82.5°	86.6	88.2	128.3	187.7	266.3	197.3	280.8	587.2	738.0	471.7
85°	49.7	48.1	94.7	109.1	118.7	81.8	85.0	176.5	231.0	198.9
87.5°	6.4	9.6	36.9	28.9	16.0	17.6	17.6	30.5	44.9	48.1
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°
2783.5	0°	2783.5	2783.5	2783.5	2783.5	2783.5	2783.5	2783.5	2783.5	2783.5	2783.5
2786.7	2.5°	2786.7	2785.1	2780.3	2775.5	2764.3	2757.9	2761.1	2757.9	2756.3	2757.9
2807.6	5°	2807.6	2802.8	2790.0	2773.9	2751.5	2724.2	2706.5	2680.9	2656.8	2642.4
2863.8	7.5°	2863.8	2858.9	2841.3	2796.4	2724.2	2610.3	2506.0	2414.5	2345.6	2305.4
2953.6	10°	2953.6	2945.6	2918.3	2818.8	2629.5	2380.8	2173.9	2002.2	1889.9	1837.0
3059.5	12.5°	3059.5	3049.9	3001.7	2798.0	2449.8	2061.6	1776.0	1585.1	1480.8	1434.3
3181.4	15°	3184.6	3171.8	3077.1	2698.5	2188.3	1708.6	1447.1	1304.3	1237.0	1195.2
3337.0	17.5°	3340.2	3317.8	3133.3	2549.3	1904.4	1439.1	1245.0	1137.5	1078.1	1038.0
3540.8	20°	3542.4	3505.5	3178.2	2371.2	1642.9	1269.0	1108.6	1018.8	973.8	938.5
3829.6	22.5°	3824.8	3771.8	3232.8	2178.7	1458.4	1151.9	1007.5	941.8	904.9	864.7
4232.3	25°	4174.5	4111.9	3300.1	2000.6	1331.6	1050.8	933.7	879.2	835.9	789.3
4760.1	27.5°	4663.8	4551.5	3380.4	1854.6	1222.5	964.2	866.3	805.4	755.6	717.1
5358.5	30°	5209.3	5024.8	3450.9	1766.4	1123.0	884.0	778.1	717.1	670.6	643.3
5896.0	32.5°	5725.9	5475.6	3497.5	1727.9	1033.2	792.5	681.8	616.1	580.8	572.8
6422.2	35°	6213.6	5883.1	3492.7	1691.0	953.0	701.1	587.2	519.8	492.5	497.3
6988.5	37.5°	6775.2	6317.9	3459.0	1633.2	887.2	617.7	505.4	446.0	421.9	423.5
7676.8	40°	7428.1	6820.1	3438.1	1524.1	815.0	540.7	438.0	389.9	372.2	365.8
8402.0	42.5°	8124.4	7306.2	3441.3	1400.6	725.2	471.7	391.5	351.4	335.3	330.5
9208.9	45°	8823.9	7769.8	3446.1	1272.2	630.5	418.7	357.8	324.1	314.5	308.0
10027.2	47.5°	9481.7	8164.5	3356.3	1134.3	537.5	378.6	330.5	308.0	300.0	292.0
10848.6	50°	10094.5	8427.6	3139.7	973.8	463.7	346.5	309.6	293.6	285.6	277.6
11593.0	52.5°	10571.0	8469.3	2781.9	808.6	412.3	322.5	296.8	282.4	272.7	264.7
12194.6	55°	10782.8	8207.8	2273.4	654.6	372.2	301.6	284.0	269.5	258.3	250.3
12667.9	57.5°	10728.3	7657.5	1772.8	526.2	333.7	280.8	267.9	258.3	245.5	232.6
13051.4	60°	10460.3	6921.1	1336.4	438.0	298.4	258.3	250.3	242.3	224.6	205.4
13199.0	62.5°	9996.7	5995.4	953.0	362.6	259.9	232.6	229.4	223.0	197.3	162.0
12980.8	65°	9287.6	4870.8	641.7	301.6	223.0	203.8	205.4	194.1	160.4	120.3
12181.8	67.5°	8251.2	3561.6	410.7	247.1	186.1	170.1	171.7	165.2	136.4	102.7
10667.3	70°	6930.8	2358.4	267.9	187.7	149.2	131.6	141.2	142.8	115.5	83.4
8187.0	72.5°	5081.0	1392.6	187.7	139.6	109.1	91.4	115.5	118.7	93.1	62.6
4925.3	75°	2895.8	661.0	141.2	101.1	67.4	64.2	89.8	89.8	64.2	41.7
2132.2	77.5°	1216.1	275.9	99.5	65.8	38.5	36.9	61.0	56.2	32.1	19.3
519.8	80°	351.4	123.5	52.9	32.1	16.0	14.4	24.1	17.6	8.0	3.2
197.3	82.5°	138.0	54.5	20.9	12.8	6.4	6.4	3.2	0.0	0.0	0.0
112.3	85°	81.8	22.5	9.6	4.8	1.6	0.0	0.0	0.0	0.0	0.0
24.1	87.5°	20.9	4.8	3.2	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°
2783.5
2764.3
2645.6
2307.0
1832.2
1429.5
1196.8
1034.8
932.1
858.3
784.5
709.1
638.5
577.6
497.3
430.0
364.2
328.9
308.0
292.0
277.6
263.1
248.7
231.0
202.1
158.8
117.1
97.9
80.2
59.4
38.5
19.3
3.2
0.0
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