

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: P953730

Luminaire Tested: **GALN-SB7A-940-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P953730  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB7A-940-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

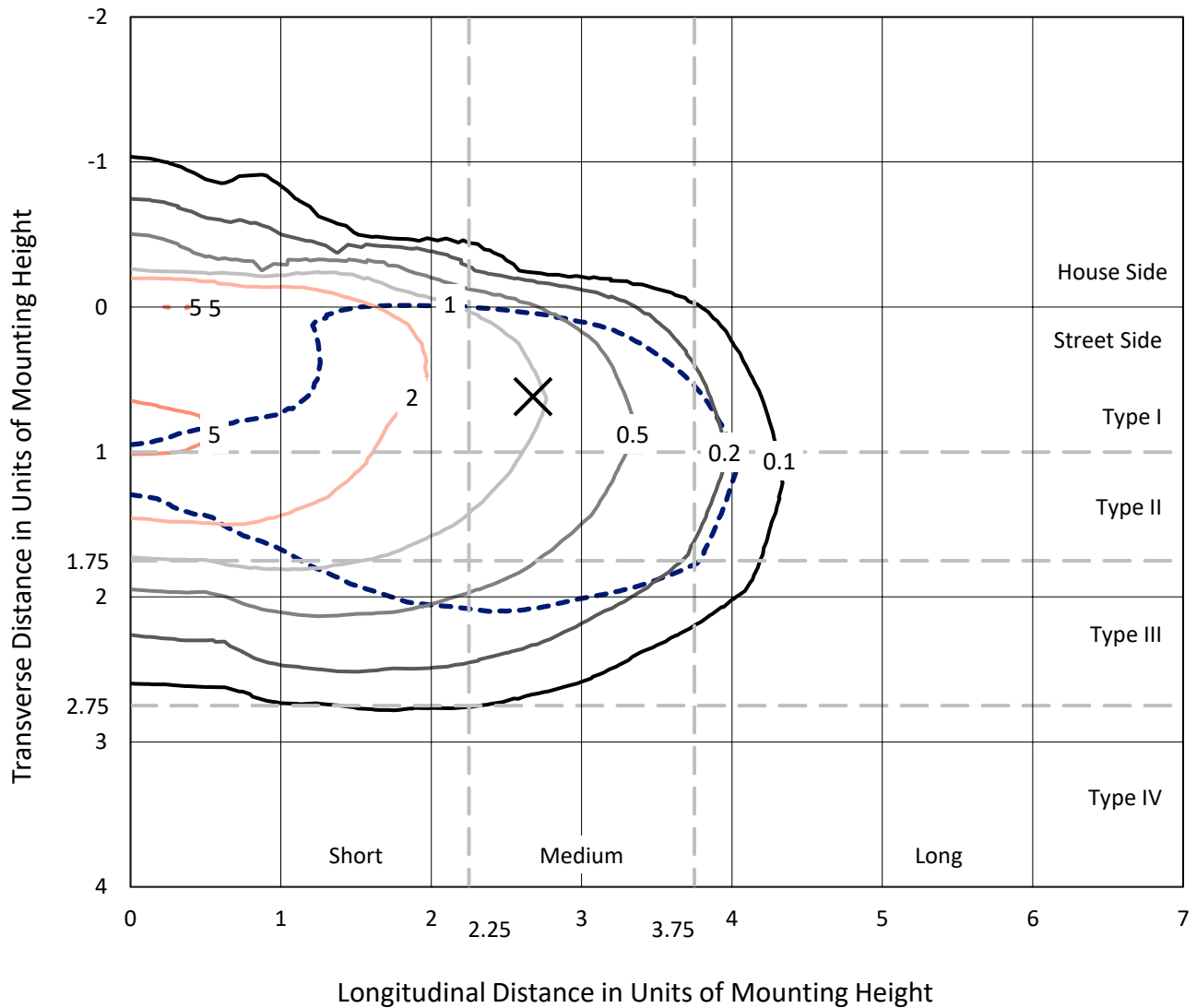
Lumens per Lamp: N/A  
Luminaire Lumens: 19246 lumens  
Efficiency: N/A  
Efficacy: 96.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 199.1  
Input Voltage (V): NR  
Input Current (Ain): 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

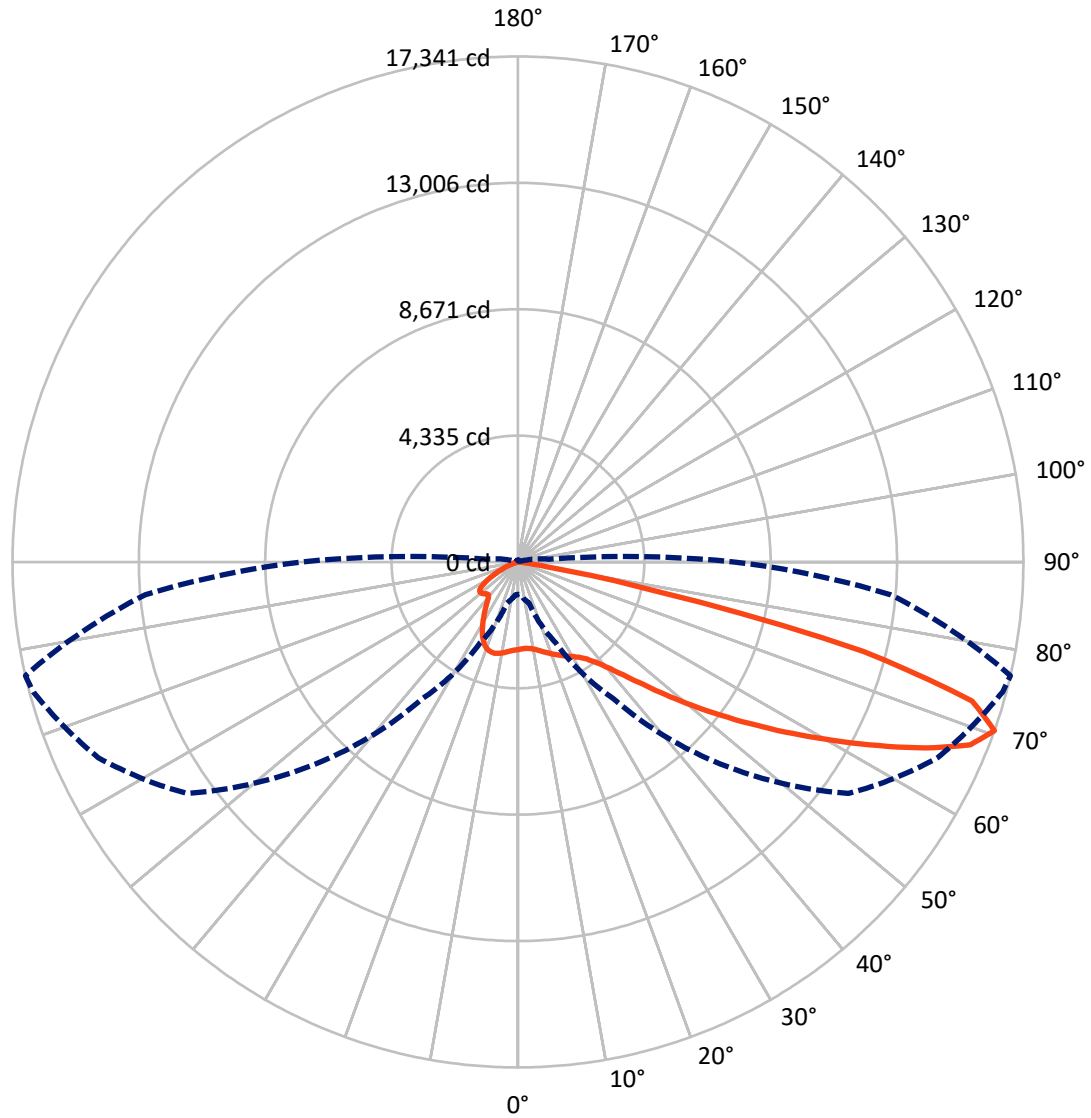
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2028.8	0.0	2028.8
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	17217.2	0.0	17217.2
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	19246.0	0.0	19246.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	258.7	1.3
10°-20°	614.2	3.2
20°-30°	950.0	4.9
30°-40°	1723.8	9.0
40°-50°	3253.9	16.9
50°-60°	4701.6	24.4
60°-70°	5004.7	26.0
70°-80°	2652.1	13.8
80°-90°	87.1	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°	19246.0	100.0
0°-180°	19246.0	100.0

**Coefficient of Utilization**



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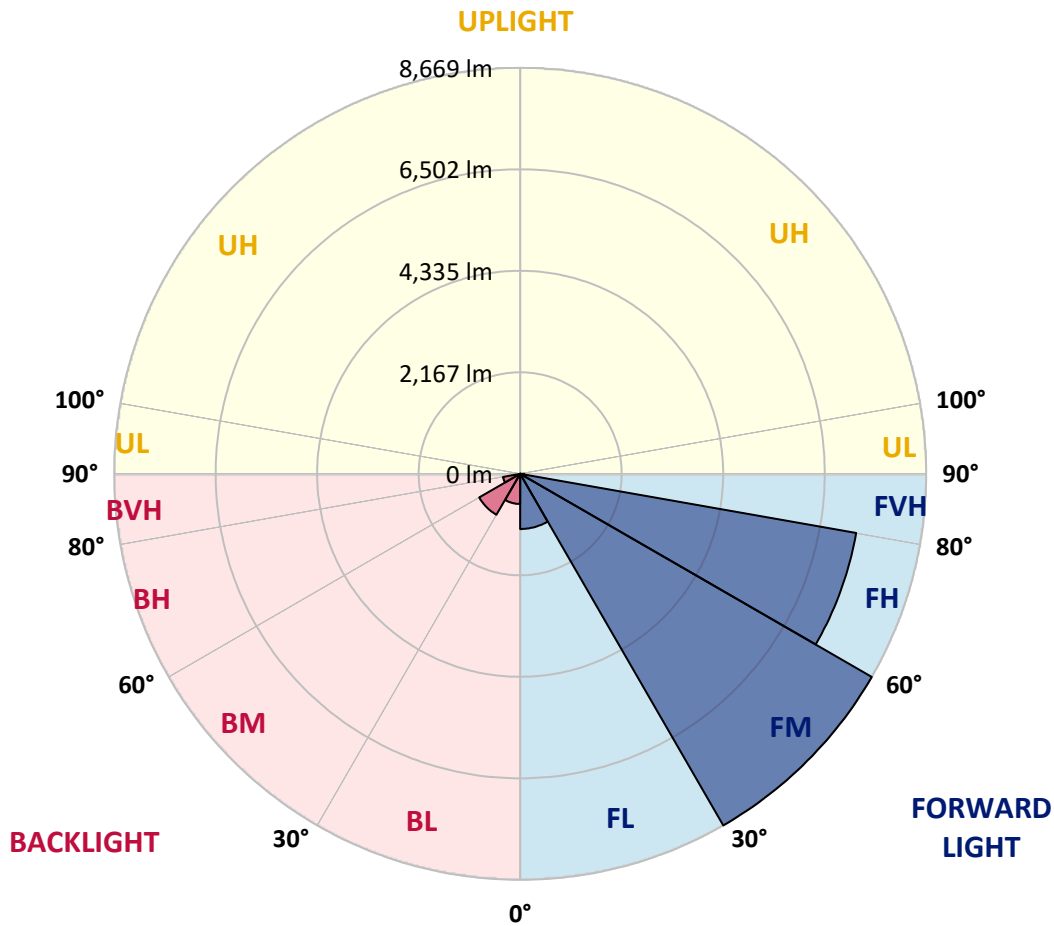
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1178.3	6.1			
FM (30°-60°)	8669.3	45.0			
FH (60°-80°)	7284.9	37.9			G3/7500
FVH (80°-90°)	84.7	0.4			G1/100
BL (0°-30°)	644.6	3.3	B2/1000		
BM (30°-60°)	1009.9	5.2	B2/2500		
BH (60°-80°)	371.9	1.9	B1/500		G1/500
BVH (80°-90°)	2.3	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 Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3002.0	3002.0	3002.0	3002.0	3002.0	3002.0	3002.0	3002.0	3002.0	3002.0
2.5°	2818.5	2844.0	2840.4	2857.4	2863.5	2887.8	2912.1	2944.9	2981.4	2980.2
5°	2659.3	2684.8	2690.9	2714.0	2743.1	2780.8	2830.7	2896.3	2964.4	2975.3
7.5°	2470.9	2497.6	2513.4	2559.6	2613.1	2690.9	2772.3	2868.3	2981.4	2997.2
10°	2282.5	2306.8	2327.5	2393.1	2478.2	2593.7	2726.1	2864.7	3016.6	3039.7
12.5°	2165.8	2188.9	2212.0	2269.1	2374.9	2515.9	2695.7	2881.7	3075.0	3107.8
15°	2124.5	2145.2	2163.4	2214.5	2312.9	2473.3	2689.7	2917.0	3149.1	3192.8
17.5°	2130.6	2141.5	2153.7	2192.6	2288.6	2453.9	2700.6	2977.7	3236.6	3275.5
20°	2165.8	2171.9	2173.1	2199.9	2284.9	2451.5	2722.5	3036.1	3319.2	3371.5
22.5°	2210.8	2213.2	2210.8	2229.0	2308.0	2469.7	2751.7	3106.6	3411.6	3460.2
25°	2421.1	2374.9	2316.5	2281.3	2346.9	2504.9	2795.4	3201.4	3512.5	3559.9
27.5°	3073.7	2941.3	2732.2	2497.6	2427.1	2556.0	2856.2	3297.4	3614.6	3657.1
30°	4133.6	3959.8	3604.9	3076.2	2684.8	2662.9	2935.2	3393.4	3722.8	3768.9
32.5°	5195.8	5153.3	4743.7	4012.0	3264.6	2901.2	3066.4	3523.4	3866.2	3902.6
35°	6270.2	6183.9	5848.5	5125.3	4157.9	3386.1	3285.2	3693.6	4054.6	4095.9
37.5°	7093.1	7040.8	6833.0	6237.4	5217.7	4134.8	3659.6	3957.3	4328.0	4374.2
40°	7819.9	7795.6	7725.1	7332.5	6402.7	5114.4	4241.7	4365.7	4707.2	4761.9
42.5°	8391.1	8448.2	8488.3	8378.9	7624.2	6232.6	5024.4	4939.4	5235.9	5291.8
45°	8975.7	8995.1	9156.8	9314.8	8837.1	7401.8	5906.8	5611.5	5893.5	5962.7
47.5°	9351.3	9429.0	9713.4	9991.8	9856.9	8561.3	6854.8	6405.1	6655.5	6785.6
50°	9379.2	9526.3	9917.6	10402.6	10599.5	9664.8	7885.5	7309.4	7575.6	7719.0
52.5°	8913.7	9142.2	9748.7	10458.5	11000.6	10599.5	8951.4	8213.6	8555.2	8742.3
55°	6834.2	7133.2	9113.0	10154.6	11016.4	11308.0	9989.3	9155.6	9646.6	9858.1
57.5°	5954.2	6104.9	7164.8	9627.2	10723.4	11593.7	10927.6	10052.5	10834.0	11096.6
60°	4954.0	5152.1	6008.9	8764.2	10326.0	11621.6	11756.5	11209.6	12121.1	12416.5
62.5°	3366.6	3581.8	4433.8	7281.4	9782.7	11608.2	12435.9	12400.7	13551.7	13868.9
65°	2085.6	2220.5	2782.0	5945.7	9023.1	11622.8	13146.9	13847.0	15061.2	15383.3
67.5°	1648.1	1710.1	2003.0	4565.0	7714.1	11294.7	13856.7	15207.0	16482.0	16737.2
70°	1107.2	1144.9	1457.3	3060.4	5739.1	9780.3	13843.4	15890.1	17213.7	17341.3
72.5°	583.4	612.6	852.0	1417.2	3466.3	6952.1	11669.0	15073.3	16485.6	16293.6
75°	291.7	340.3	573.7	719.5	1480.4	3877.1	7246.2	11884.1	12975.6	12231.7
77.5°	221.2	267.4	474.0	474.0	515.3	1305.3	3068.9	6481.7	5978.5	4978.3
80°	141.0	182.3	414.5	358.5	215.1	331.8	799.7	1815.8	1270.1	966.2
82.5°	82.6	119.1	345.2	237.0	120.3	122.8	226.1	386.5	329.4	256.4
85°	32.8	77.8	237.0	93.6	47.4	30.4	68.1	82.6	68.1	51.0
87.5°	0.0	18.2	41.3	0.0	3.6	2.4	4.9	6.1	6.1	4.9
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°
3002.0	0°	3002.0	3002.0	3002.0	3002.0	3002.0	3002.0	3002.0	3002.0	3002.0	3002.0
3004.5	2.5°	3015.4	3017.8	3025.1	3026.3	3009.3	2987.4	2978.9	2975.3	2960.7	2959.5
3023.9	5°	3051.9	3062.8	3051.9	3020.3	2944.9	2839.2	2758.9	2693.3	2633.8	2615.5
3090.8	7.5°	3124.8	3135.7	3102.9	2978.9	2789.3	2579.1	2389.5	2255.8	2135.5	2090.5
3172.2	10°	3229.3	3243.9	3140.6	2890.2	2554.8	2216.9	1896.0	1670.0	1493.7	1422.0
3282.8	12.5°	3360.6	3366.6	3161.2	2755.3	2249.7	1767.2	1312.6	1070.8	914.0	855.6
3416.5	15°	3505.2	3496.7	3163.7	2571.8	1834.0	1249.4	856.9	703.7	640.5	621.1
3550.2	17.5°	3657.1	3621.9	3115.1	2306.8	1378.3	854.4	635.7	599.2	588.3	583.4
3682.7	20°	3806.6	3727.6	3026.3	1960.4	989.3	638.1	577.3	566.4	560.3	557.9
3816.3	22.5°	3942.7	3807.8	2874.4	1558.1	718.3	563.9	545.7	536.0	525.1	520.2
3946.4	25°	4075.2	3854.0	2660.5	1182.6	574.9	527.5	512.9	494.7	480.1	474.0
4086.2	27.5°	4204.1	3883.2	2393.1	875.1	512.9	493.5	466.7	441.2	430.3	427.8
4235.7	30°	4341.4	3892.9	2089.3	652.7	475.2	450.9	412.0	382.8	376.8	378.0
4437.4	32.5°	4509.1	3907.5	1783.0	534.8	443.6	399.9	353.7	323.3	318.4	323.3
4731.5	35°	4709.7	3936.7	1487.6	492.2	415.7	347.6	297.8	272.2	267.4	271.0
5108.3	37.5°	4981.9	3984.1	1211.7	483.7	392.6	303.8	250.4	229.7	229.7	230.9
5570.2	40°	5344.1	4110.5	965.0	477.7	380.4	271.0	211.5	203.0	206.6	209.0
6158.4	42.5°	5785.3	4379.1	798.5	470.4	367.0	256.4	192.0	188.4	194.5	196.9
6863.3	45°	6280.0	4719.4	740.2	458.2	354.9	266.2	183.5	178.7	186.0	187.2
7653.3	47.5°	6791.6	5052.4	732.9	444.8	342.7	280.8	181.1	170.2	178.7	179.9
8496.8	50°	7309.4	5270.0	740.2	424.2	323.3	280.8	182.3	161.6	168.9	172.6
9371.9	52.5°	7830.8	5369.6	735.3	379.2	289.3	263.7	182.3	154.4	161.6	164.1
10317.5	55°	8336.4	5350.2	661.2	312.4	245.5	233.4	177.4	148.3	153.1	154.4
11210.8	57.5°	8736.3	5079.1	523.8	243.1	199.3	194.5	161.6	141.0	144.6	143.4
12030.0	60°	8945.3	4483.6	374.3	187.2	156.8	153.1	142.2	131.3	133.7	127.6
12724.0	62.5°	8947.7	3696.0	250.4	148.3	125.2	121.5	121.5	117.9	115.5	103.3
13261.2	65°	8756.9	2822.1	166.5	117.9	100.9	94.8	102.1	100.9	92.4	75.4
13425.3	67.5°	8324.2	1849.8	126.4	92.4	77.8	74.1	81.4	85.1	79.0	63.2
12827.3	70°	7434.6	1076.8	104.5	71.7	58.3	54.7	65.6	72.9	65.6	51.0
10964.1	72.5°	6175.4	581.0	85.1	53.5	40.1	36.5	52.3	59.6	52.3	37.7
7034.7	75°	4007.2	311.1	65.6	35.2	20.7	23.1	38.9	43.8	36.5	24.3
2065.0	77.5°	1345.4	137.3	41.3	17.0	9.7	9.7	23.1	26.7	17.0	8.5
375.6	80°	300.2	57.1	17.0	7.3	3.6	3.6	4.9	4.9	2.4	0.0
115.5	82.5°	98.4	23.1	7.3	2.4	0.0	0.0	0.0	0.0	0.0	0.0
29.2	85°	37.7	8.5	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9.7	87.5°	14.6	1.2	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

(END O

180°
3002.0
2961.9
2604.6
2072.3
1391.6
837.4
621.1
582.2
555.4
519.0
471.6
425.4
378.0
322.1
269.8
229.7
209.0
196.9
188.4
181.1
173.8
164.1
154.4
143.4
126.4
99.7
72.9
62.0
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