

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: P949717

Luminaire Tested: **GALN-SB4B-850-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949717  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB4B-850-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

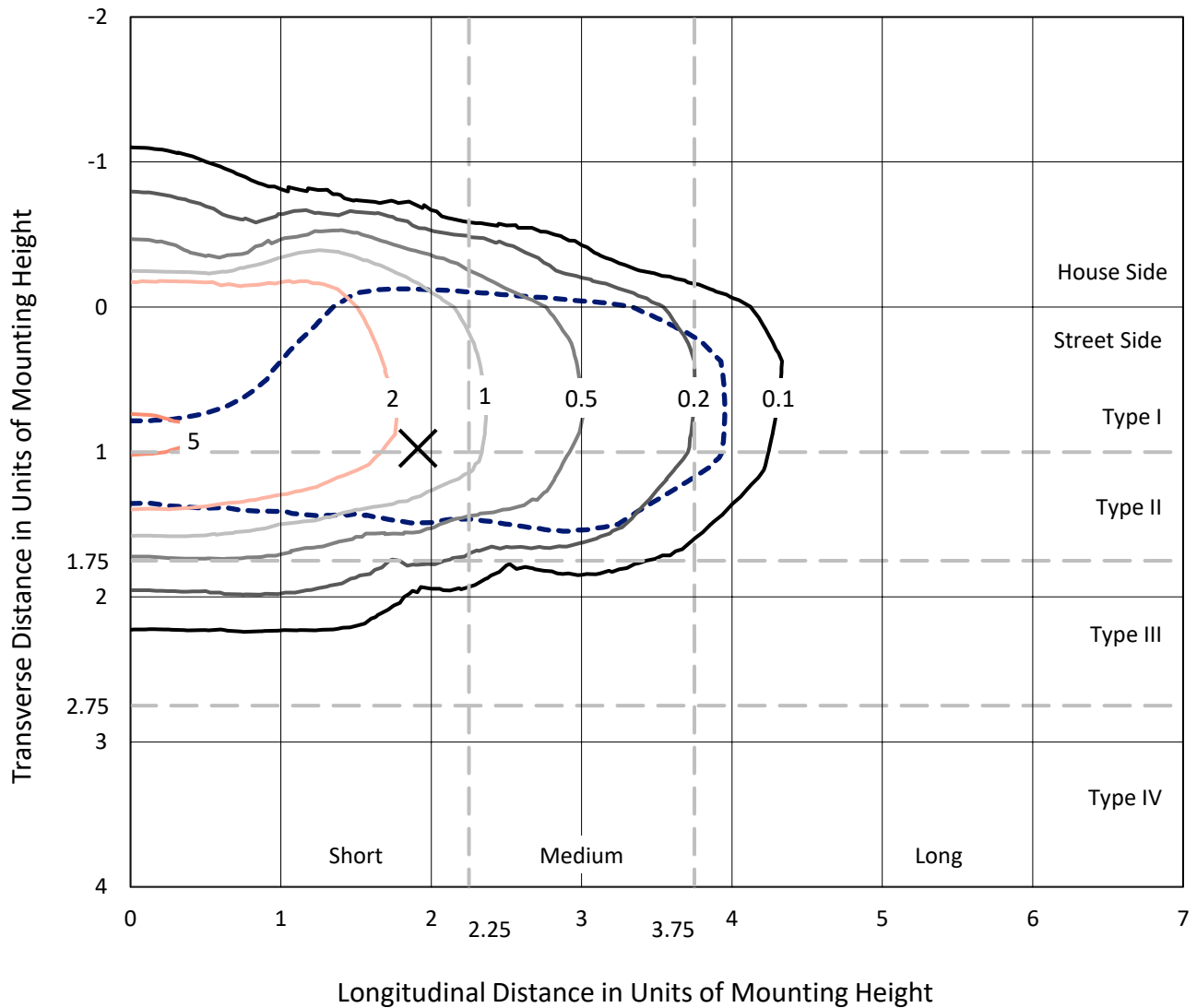
Lumens per Lamp: N/A  
Luminaire Lumens: 16498 lumens  
Efficiency: N/A  
Efficacy: 112.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 147  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

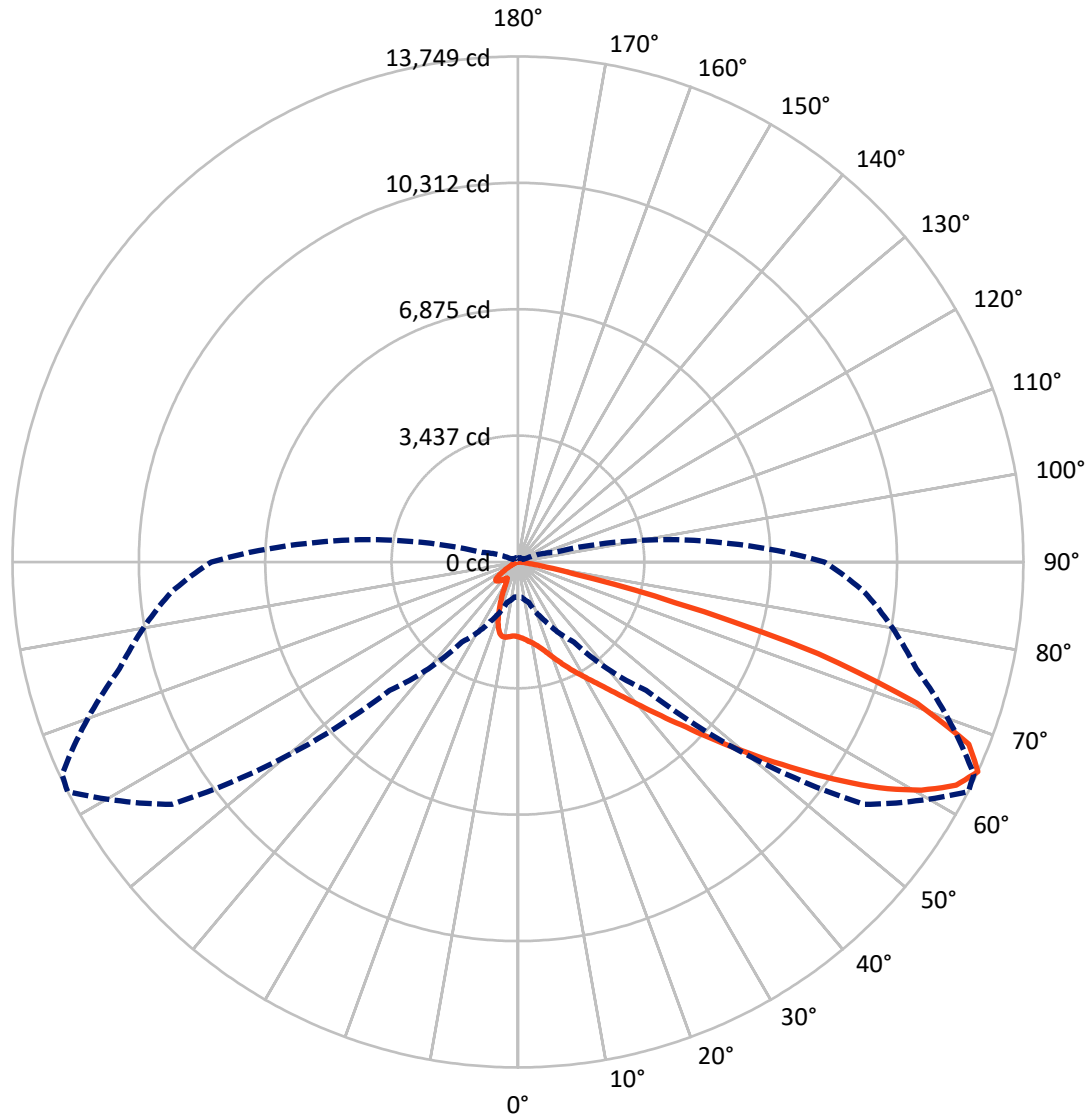
✕ Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P949717  
CATALOG NUMBER: GALN-SB4B-850-U-T2U-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2425.1	0.0	2425.1
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	14072.9	0.0	14072.9
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	16498.0	0.0	16498.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	191.8	1.2
10°-20°	532.3	3.2
20°-30°	926.9	5.6
30°-40°	1670.6	10.1
40°-50°	3313.3	20.1
50°-60°	4513.3	27.4
60°-70°	3602.5	21.8
70°-80°	1630.2	9.9
80°-90°	117.2	0.7
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°	16498.0	100.0
0°-180°	16498.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P949717

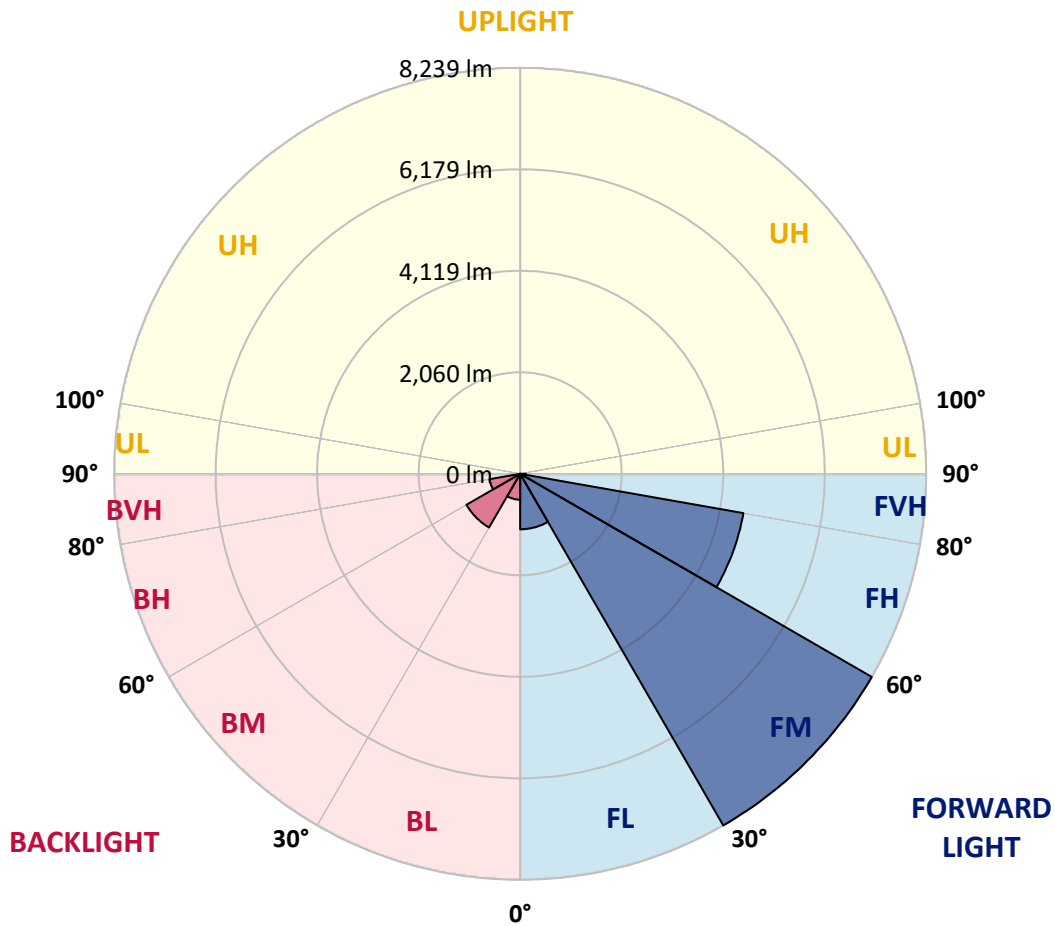
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1126.2	6.8			
FM (30°-60°)	8238.7	49.9			
FH (60°-80°)	4599.6	27.9			G2/5000
FVH (80°-90°)	108.5	0.7			G2/225
BL (0°-30°)	524.8	3.2	B2/1000		
BM (30°-60°)	1258.5	7.6	B2/2500		
BH (60°-80°)	633.1	3.8	B2/1000		G2/1000
BVH (80°-90°)	8.7	0.1			G0/10
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 Short



REPORT NUMBER: P949717

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	2036.2	2036.2	2036.2	2036.2	2036.2	2036.2	2036.2	2036.2	2036.2	2036.2
2.5°	2083.8	2078.2	2086.1	2082.7	2080.4	2075.9	2073.6	2071.3	2066.8	2063.4
5°	2089.5	2086.1	2094.0	2100.9	2107.7	2114.5	2117.9	2122.4	2117.9	2108.8
7.5°	2041.8	2039.6	2056.6	2077.0	2107.7	2133.8	2162.1	2178.0	2179.2	2175.8
10°	2038.4	2032.8	2049.8	2074.8	2114.5	2161.0	2211.0	2245.0	2249.5	2264.3
12.5°	2091.8	2086.1	2109.9	2137.2	2178.0	2226.8	2288.1	2335.8	2342.6	2363.0
15°	2181.4	2173.5	2200.7	2235.9	2288.1	2343.7	2408.4	2451.6	2457.2	2482.2
17.5°	2285.9	2277.9	2309.7	2347.2	2403.9	2479.9	2554.9	2602.5	2609.3	2625.2
20°	2419.8	2409.6	2434.5	2468.6	2528.7	2619.5	2709.2	2777.3	2776.2	2776.2
22.5°	2575.3	2559.4	2581.0	2608.2	2664.9	2775.0	2894.2	2974.8	2974.8	2943.0
25°	2742.1	2726.2	2750.1	2775.0	2825.0	2949.8	3089.4	3189.3	3193.9	3139.4
27.5°	2951.0	2930.5	2948.7	2978.2	3007.7	3134.8	3300.5	3416.3	3418.6	3334.6
30°	3352.7	3294.9	3238.1	3206.3	3220.0	3345.9	3523.0	3651.3	3662.6	3546.8
32.5°	4088.2	4076.9	3877.1	3616.1	3479.9	3572.9	3771.6	3925.9	3932.7	3784.0
35°	5231.2	5217.5	4896.3	4399.2	3955.4	3877.1	4073.5	4256.2	4251.7	4083.7
37.5°	6595.4	6582.9	6159.6	5494.5	4776.0	4336.8	4462.8	4654.6	4683.0	4462.8
40°	7761.0	7714.5	7446.6	6805.4	5865.6	5099.5	5016.6	5143.8	5173.3	4912.2
42.5°	8644.1	8604.3	8468.1	8067.5	7184.5	6227.7	5669.3	5718.1	5751.0	5437.7
45°	9101.5	9092.4	9146.9	9109.4	8528.3	7612.4	6602.2	6399.1	6411.5	6020.0
47.5°	9166.1	9161.6	9410.2	9762.0	9683.7	9174.1	7799.6	7248.0	7203.8	6677.1
50°	8784.8	8775.7	9252.4	9911.8	10455.5	10486.1	9159.3	8204.8	8107.2	7357.0
52.5°	7567.0	7564.7	8347.8	9445.4	10726.8	11634.7	10503.2	9255.8	9092.4	8076.6
55°	5822.5	5864.5	6762.2	8059.5	10231.9	12187.5	11709.7	10422.6	10171.7	8800.7
57.5°	4124.5	4185.8	5073.4	6228.8	8697.4	11860.6	12525.7	11591.6	11321.5	9522.5
60°	2215.5	2270.0	3158.7	4537.7	6470.6	10641.6	12955.9	12606.3	12350.9	10208.1
62.5°	1320.0	1338.1	1705.9	2929.4	4376.5	8129.9	12773.1	13379.2	13169.2	10783.5
65°	947.7	951.1	1136.1	1788.7	2657.0	4939.5	11491.7	13749.2	13684.5	11217.1
67.5°	797.9	795.6	872.8	1188.3	1810.3	2474.3	8807.5	13226.0	13500.7	11491.7
70°	684.4	687.8	778.6	870.5	1360.8	1400.6	4378.8	11515.6	12101.2	11564.4
72.5°	509.6	521.0	604.9	793.4	1027.2	963.6	1511.8	8538.5	9597.4	10895.9
75°	359.8	365.5	425.6	667.4	766.1	701.4	771.8	4414.0	5771.4	8353.5
77.5°	276.9	287.2	322.3	466.5	754.8	492.6	472.2	1527.7	2347.2	5046.1
80°	149.8	168.0	232.7	337.1	530.0	348.4	233.8	608.4	795.6	2359.6
82.5°	77.2	86.3	162.3	242.9	301.9	304.2	115.8	253.1	328.0	728.7
85°	30.6	37.5	109.0	133.9	155.5	149.8	52.2	102.1	118.0	202.0
87.5°	6.8	11.3	39.7	30.6	29.5	31.8	12.5	23.8	22.7	23.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P949717  
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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2036.2	0°	2036.2	2036.2	2036.2	2036.2	2036.2	2036.2	2036.2	2036.2	2036.2	2036.2
2049.8	2.5°	2048.6	2044.1	2031.6	2018.0	2002.1	1993.0	1987.4	1986.2	1978.3	1972.6
2095.2	5°	2082.7	2078.2	2054.3	2026.0	1995.3	1971.5	1948.8	1928.3	1898.8	1893.2
2161.0	7.5°	2150.8	2138.3	2099.7	2061.1	2003.3	1934.0	1850.0	1753.6	1667.3	1641.2
2248.4	10°	2234.8	2217.8	2169.0	2100.9	1972.6	1784.2	1581.0	1392.6	1242.8	1200.8
2351.7	12.5°	2330.1	2315.4	2250.7	2124.7	1844.4	1502.7	1191.7	957.9	812.6	776.3
2461.8	15°	2443.6	2422.1	2332.4	2088.4	1615.1	1141.8	818.3	679.9	627.6	620.8
2587.8	17.5°	2563.9	2528.7	2405.0	1957.9	1306.4	811.5	632.2	592.5	569.8	563.0
2714.9	20°	2674.0	2628.6	2448.2	1760.4	976.1	632.2	566.4	540.3	519.8	511.9
2842.0	22.5°	2784.1	2719.4	2448.2	1491.4	732.1	560.7	519.8	496.0	472.2	461.9
2978.2	25°	2898.8	2812.5	2405.0	1191.7	589.1	514.1	475.6	449.5	429.0	416.5
3107.6	27.5°	3010.0	2890.8	2306.3	908.0	524.4	473.3	434.7	409.7	390.4	381.4
3248.3	30°	3115.5	2968.0	2167.8	688.9	482.4	433.6	397.2	375.7	356.4	347.3
3431.1	32.5°	3258.5	3065.6	2020.3	565.2	446.0	396.1	363.2	342.8	325.7	318.9
3668.3	35°	3457.2	3209.7	1893.2	555.0	415.4	365.5	332.6	313.3	296.2	290.6
3974.7	37.5°	3738.6	3442.4	1826.2	623.1	390.4	338.2	307.6	287.2	271.3	266.7
4364.0	40°	4085.9	3757.9	1862.5	691.2	373.4	314.4	284.9	264.5	250.8	245.2
4811.2	42.5°	4497.9	4147.2	2063.4	743.4	362.1	294.0	263.3	240.6	231.5	229.3
5318.5	45°	4971.2	4575.1	2371.0	799.0	343.9	274.7	241.8	224.7	217.9	216.8
5870.1	47.5°	5509.2	5045.0	2727.4	868.3	325.7	256.5	224.7	213.4	207.7	205.4
6445.6	50°	6042.7	5518.3	3094.0	906.9	311.0	239.5	211.1	202.0	197.5	196.4
7053.9	52.5°	6601.1	6005.2	3390.2	870.5	298.5	225.9	199.8	192.9	188.4	187.3
7614.6	55°	7133.4	6399.1	3441.3	738.9	273.5	212.2	187.3	183.9	178.2	178.2
8183.2	57.5°	7591.9	6596.5	3080.4	542.5	248.6	191.8	174.8	171.4	166.8	165.7
8696.3	60°	8013.0	6539.8	2377.8	365.5	221.3	171.4	158.9	156.6	152.1	146.4
9142.3	62.5°	8250.2	6290.1	1626.4	238.3	194.1	149.8	140.7	139.6	129.4	118.0
9472.6	65°	8339.9	5777.1	1014.7	173.7	162.3	128.3	121.4	119.2	104.4	91.9
9659.9	67.5°	8261.6	4932.6	511.9	137.3	128.3	106.7	99.9	99.9	89.7	78.3
9648.5	70°	7948.3	3697.8	215.6	110.1	98.7	81.7	81.7	86.3	76.0	63.6
9148.0	72.5°	7268.5	2487.9	114.6	84.0	73.8	57.9	67.0	70.4	60.2	47.7
7487.5	75°	5778.2	1517.5	79.4	62.4	46.5	40.9	51.1	53.3	40.9	31.8
5133.5	77.5°	3952.0	871.7	53.3	39.7	29.5	23.8	35.2	32.9	21.6	14.8
1979.4	80°	1735.4	363.2	30.6	18.2	11.3	9.1	12.5	9.1	6.8	4.5
271.3	82.5°	203.2	85.1	11.3	6.8	4.5	2.3	1.1	0.0	0.0	0.0
82.9	85°	42.0	10.2	5.7	2.3	1.1	0.0	0.0	0.0	0.0	0.0
14.8	87.5°	7.9	2.3	1.1	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°
2036.2
1978.3
1890.9
1628.7
1184.9
766.1
614.0
559.5
507.3
456.3
412.0
381.4
348.4
318.9
290.6
265.6
244.0
229.3
215.6
205.4
196.4
187.3
177.1
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