

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: P951229

Luminaire Tested: **GALN-SB5B-940-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951229  
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-SB5B-940-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

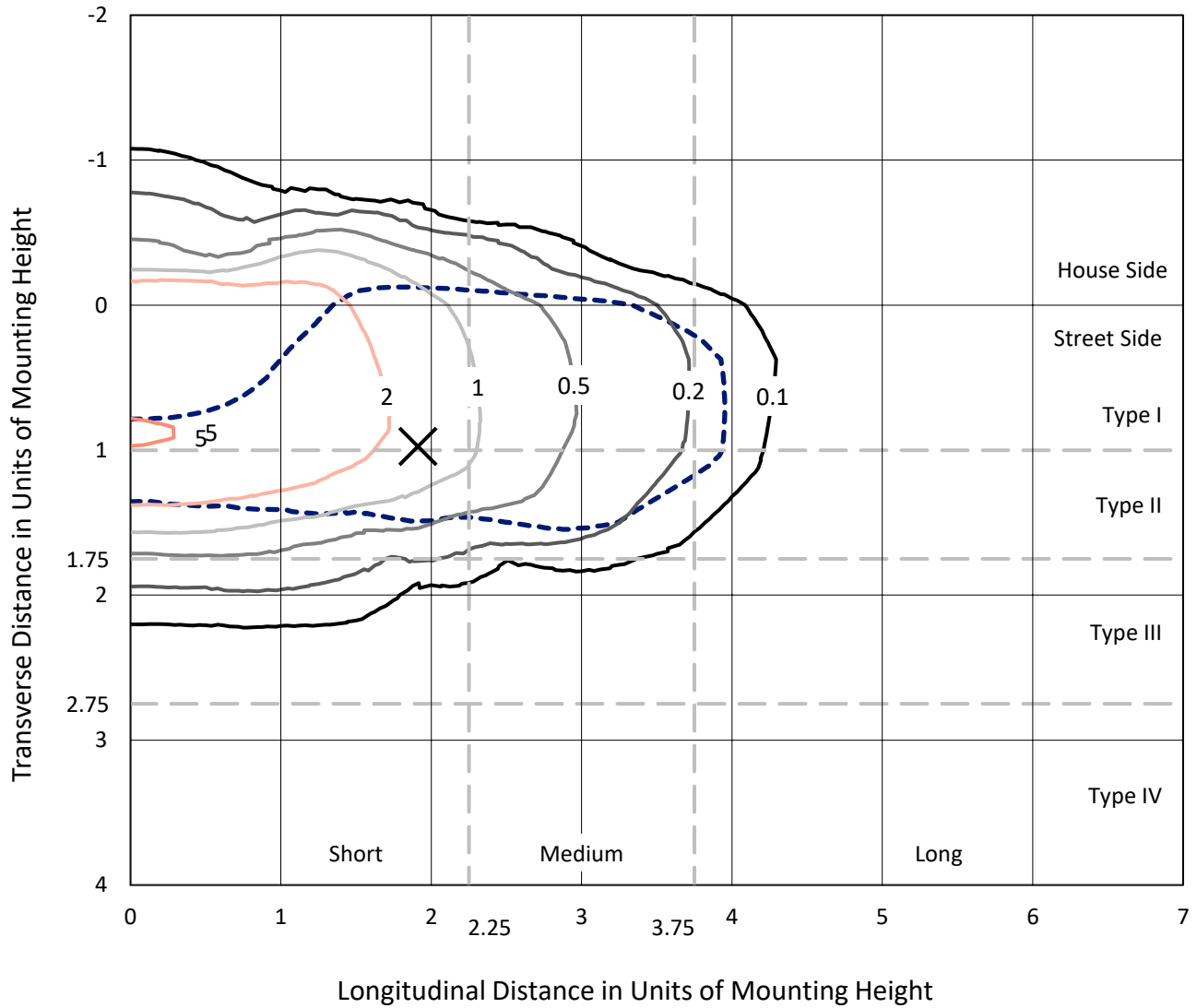
Lumens per Lamp: N/A  
Luminaire Lumens: 15753 lumens  
Efficiency: N/A  
Efficacy: 86.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 182.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

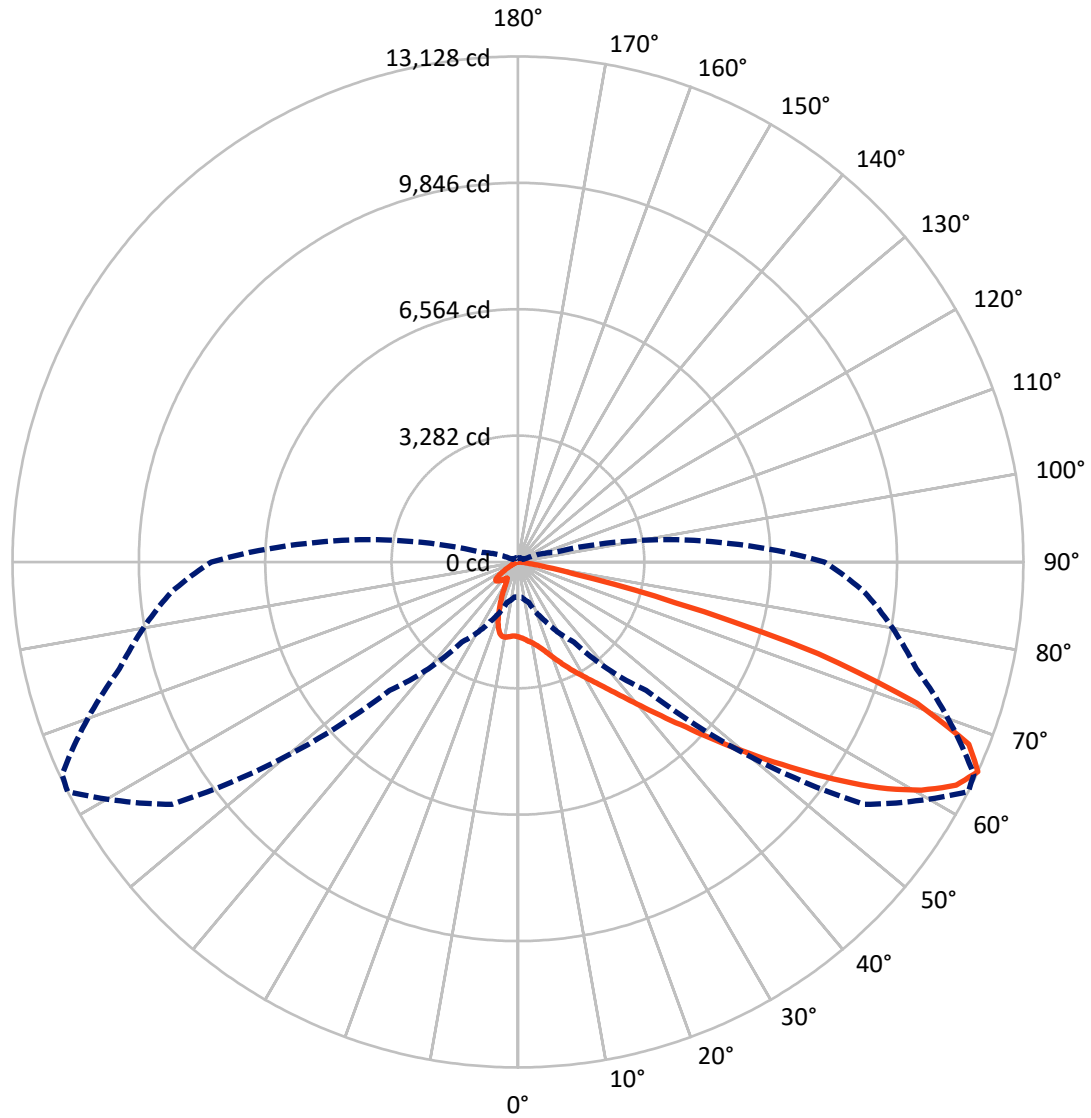
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc  
 Type II - Short - N/A

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### 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	2315.6	0.0	2315.6
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	13437.4	0.0	13437.4
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	15753.0	0.0	15753.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	183.2	1.2
10°-20°	508.3	3.2
20°-30°	885.0	5.6
30°-40°	1595.1	10.1
40°-50°	3163.7	20.1
50°-60°	4309.5	27.4
60°-70°	3439.8	21.8
70°-80°	1556.6	9.9
80°-90°	111.9	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°	15753.0	100.0
0°-180°	15753.0	100.0

**Coefficient of Utilization**



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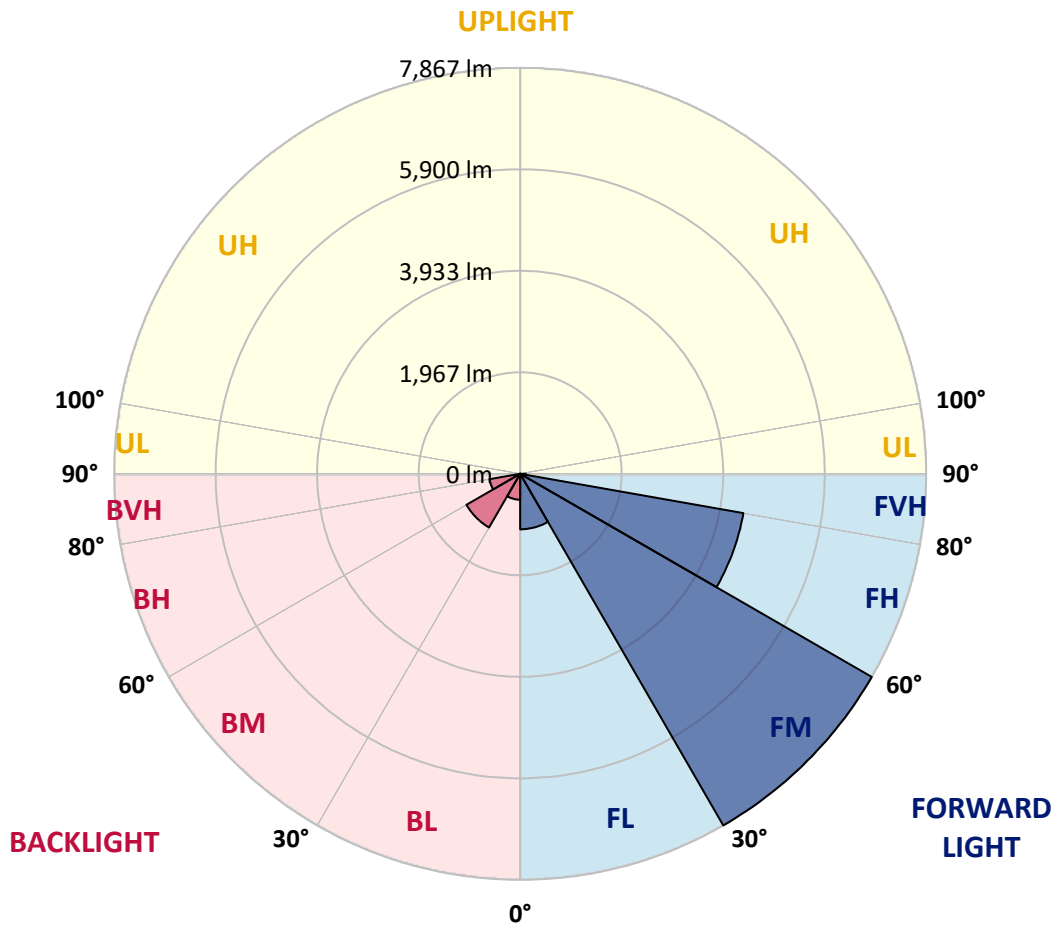
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1075.3	6.8			
FM (30°-60°)	7866.7	49.9			
FH (60°-80°)	4391.9	27.9			G2/5000
FVH (80°-90°)	103.6	0.7			G2/225
BL (0°-30°)	501.1	3.2	B2/1000		
BM (30°-60°)	1201.6	7.6	B2/2500		
BH (60°-80°)	604.5	3.8	B2/1000		G2/1000
BVH (80°-90°)	8.3	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



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	1944.2	1944.2	1944.2	1944.2	1944.2	1944.2	1944.2	1944.2	1944.2	1944.2
2.5°	1989.7	1984.3	1991.9	1988.7	1986.5	1982.1	1980.0	1977.8	1973.5	1970.2
5°	1995.2	1991.9	1999.5	2006.0	2012.5	2019.0	2022.2	2026.6	2022.2	2013.6
7.5°	1949.6	1947.5	1963.7	1983.2	2012.5	2037.4	2064.5	2079.7	2080.8	2077.5
10°	1946.4	1941.0	1957.2	1981.1	2019.0	2063.4	2111.1	2143.6	2148.0	2162.0
12.5°	1997.3	1991.9	2014.7	2040.7	2079.7	2126.3	2184.8	2230.3	2236.8	2256.3
15°	2082.9	2075.3	2101.4	2135.0	2184.8	2237.9	2299.7	2340.9	2346.3	2370.1
17.5°	2182.6	2175.1	2205.4	2241.2	2295.3	2368.0	2439.5	2485.0	2491.5	2506.7
20°	2310.5	2300.8	2324.6	2357.1	2414.6	2501.3	2586.9	2651.9	2650.8	2650.8
22.5°	2459.0	2443.8	2464.4	2490.4	2544.6	2649.7	2763.5	2840.5	2840.5	2810.1
25°	2618.3	2603.1	2625.9	2649.7	2697.4	2816.6	2949.9	3045.3	3049.6	2997.6
27.5°	2817.7	2798.2	2815.5	2843.7	2871.9	2993.3	3151.5	3262.0	3264.2	3184.0
30°	3201.3	3146.1	3091.9	3061.5	3074.6	3194.8	3363.9	3486.4	3497.2	3386.7
32.5°	3903.6	3892.8	3702.0	3452.8	3322.7	3411.6	3601.2	3748.6	3755.1	3613.2
35°	4994.9	4981.9	4675.2	4200.6	3776.8	3702.0	3889.5	4064.0	4059.7	3899.3
37.5°	6297.6	6285.7	5881.4	5246.4	4560.4	4140.9	4261.2	4444.4	4471.5	4261.2
40°	7410.6	7366.1	7110.4	6498.1	5600.7	4869.2	4790.1	4911.5	4939.7	4690.4
42.5°	8253.7	8215.8	8085.7	7703.2	6860.0	5946.4	5413.2	5459.8	5491.3	5192.2
45°	8690.5	8681.8	8733.8	8698.0	8143.2	7268.6	6304.1	6110.1	6122.0	5748.1
47.5°	8752.2	8747.9	8985.2	9321.2	9246.4	8759.8	7447.4	6920.7	6878.5	6375.6
50°	8388.1	8379.4	8834.6	9464.2	9983.4	10012.6	8745.7	7834.3	7741.1	7024.8
52.5°	7225.3	7223.1	7970.9	9018.8	10242.4	11109.4	10028.9	8837.8	8681.8	7711.8
55°	5559.6	5599.7	6456.9	7695.6	9769.9	11637.1	11180.9	9951.9	9712.4	8403.3
57.5°	3938.3	3996.8	4844.3	5947.5	8304.6	11325.0	11960.1	11068.2	10810.2	9092.5
60°	2115.4	2167.5	3016.0	4332.8	6178.4	10161.1	12370.8	12037.0	11793.2	9747.1
62.5°	1260.4	1277.7	1628.9	2797.1	4178.9	7762.8	12196.3	12775.1	12574.6	10296.6
65°	904.9	908.2	1084.8	1708.0	2537.0	4716.4	10972.8	13128.3	13066.6	10710.5
67.5°	761.9	759.7	833.4	1134.7	1728.6	2362.5	8409.8	12628.7	12891.0	10972.8
70°	653.5	656.7	743.4	831.2	1299.4	1337.3	4181.0	10995.6	11554.8	11042.2
72.5°	486.6	497.4	577.6	757.5	980.8	920.1	1443.5	8152.9	9164.1	10403.8
75°	343.5	349.0	406.4	637.2	731.5	669.7	736.9	4214.6	5510.8	7976.3
77.5°	264.4	274.2	307.8	445.4	720.7	470.3	450.8	1458.7	2241.2	4818.3
80°	143.1	160.4	222.2	321.9	506.1	332.7	223.2	580.9	759.7	2253.1
82.5°	73.7	82.4	155.0	231.9	288.3	290.4	110.5	241.7	313.2	695.8
85°	29.3	35.8	104.0	127.9	148.5	143.1	49.9	97.5	112.7	192.9
87.5°	6.5	10.8	37.9	29.3	28.2	30.3	11.9	22.8	21.7	22.8
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°
1944.2	0°	1944.2	1944.2	1944.2	1944.2	1944.2	1944.2	1944.2	1944.2	1944.2	1944.2
1957.2	2.5°	1956.1	1951.8	1939.9	1926.9	1911.7	1903.0	1897.6	1896.5	1888.9	1883.5
2000.6	5°	1988.7	1984.3	1961.6	1934.5	1905.2	1882.4	1860.8	1841.3	1813.1	1807.7
2063.4	7.5°	2053.7	2041.8	2004.9	1968.1	1912.8	1846.7	1766.5	1674.4	1592.0	1567.1
2146.9	10°	2133.9	2117.6	2071.0	2006.0	1883.5	1703.6	1509.6	1329.7	1186.7	1146.6
2245.5	12.5°	2224.9	2210.8	2149.0	2028.7	1761.1	1434.9	1137.9	914.7	776.0	741.3
2350.6	15°	2333.3	2312.7	2227.1	1994.1	1542.2	1090.2	781.4	649.2	599.3	592.8
2470.9	17.5°	2448.2	2414.6	2296.4	1869.4	1247.4	774.9	603.6	565.7	544.0	537.5
2592.3	20°	2553.3	2509.9	2337.6	1680.9	932.0	603.6	540.8	515.9	496.3	488.8
2713.7	22.5°	2658.4	2596.6	2337.6	1424.0	699.0	535.4	496.3	473.6	450.8	441.1
2843.7	25°	2767.9	2685.5	2296.4	1137.9	562.5	490.9	454.1	429.2	409.7	397.7
2967.3	27.5°	2874.1	2760.3	2202.1	867.0	500.7	451.9	415.1	391.2	372.8	364.1
3101.6	30°	2974.8	2834.0	2069.9	657.8	460.6	414.0	379.3	358.7	340.3	331.6
3276.1	32.5°	3111.4	2927.2	1929.0	539.7	425.9	378.2	346.8	327.3	311.0	304.5
3502.6	35°	3301.1	3064.8	1807.7	529.9	396.6	349.0	317.5	299.1	282.9	277.4
3795.2	37.5°	3569.8	3287.0	1743.7	595.0	372.8	323.0	293.7	274.2	259.0	254.7
4167.0	40°	3901.4	3588.2	1778.4	660.0	356.5	300.2	272.0	252.5	239.5	234.1
4593.9	42.5°	4294.8	3960.0	1970.2	709.8	345.7	280.7	251.4	229.8	221.1	218.9
5078.4	45°	4746.8	4368.5	2263.9	762.9	328.4	262.3	230.8	214.6	208.1	207.0
5605.1	47.5°	5260.4	4817.2	2604.2	829.1	311.0	244.9	214.6	203.7	198.3	196.2
6154.5	50°	5769.8	5269.1	2954.3	865.9	296.9	228.7	201.6	192.9	188.6	187.5
6735.4	52.5°	6303.0	5734.0	3237.1	831.2	285.0	215.7	190.7	184.2	179.9	178.8
7270.8	55°	6811.3	6110.1	3285.9	705.5	261.2	202.7	178.8	175.6	170.1	170.1
7813.7	57.5°	7249.1	6298.7	2941.3	518.0	237.3	183.2	166.9	163.6	159.3	158.2
8303.6	60°	7651.2	6244.5	2270.4	349.0	211.3	163.6	151.7	149.6	145.2	139.8
8729.5	62.5°	7877.7	6006.1	1553.0	227.6	185.3	143.1	134.4	133.3	123.5	112.7
9044.8	65°	7963.3	5516.2	968.9	165.8	155.0	122.5	116.0	113.8	99.7	87.8
9223.7	67.5°	7888.5	4709.9	488.8	131.1	122.5	101.9	95.4	95.4	85.6	74.8
9212.8	70°	7589.4	3530.8	205.9	105.1	94.3	78.0	78.0	82.4	72.6	60.7
8734.9	72.5°	6940.2	2375.5	109.5	80.2	70.4	55.3	63.9	67.2	57.4	45.5
7149.4	75°	5517.3	1449.0	75.9	59.6	44.4	39.0	48.8	50.9	39.0	30.3
4901.7	77.5°	3773.6	832.3	50.9	37.9	28.2	22.8	33.6	31.4	20.6	14.1
1890.0	80°	1657.0	346.8	29.3	17.3	10.8	8.7	11.9	8.7	6.5	4.3
259.0	82.5°	194.0	81.3	10.8	6.5	4.3	2.2	1.1	0.0	0.0	0.0
79.1	85°	40.1	9.8	5.4	2.2	1.1	0.0	0.0	0.0	0.0	0.0
14.1	87.5°	7.6	2.2	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

<u>180°</u>
1944.2
1888.9
1805.5
1555.2
1131.4
731.5
586.3
534.3
484.4
435.7
393.4
364.1
332.7
304.5
277.4
253.6
233.0
218.9
205.9
196.2
187.5
178.8
169.1
157.1
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