

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: P948625

Luminaire Tested: **GALN-SB3C-840-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P948625  
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-SB3C-840-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

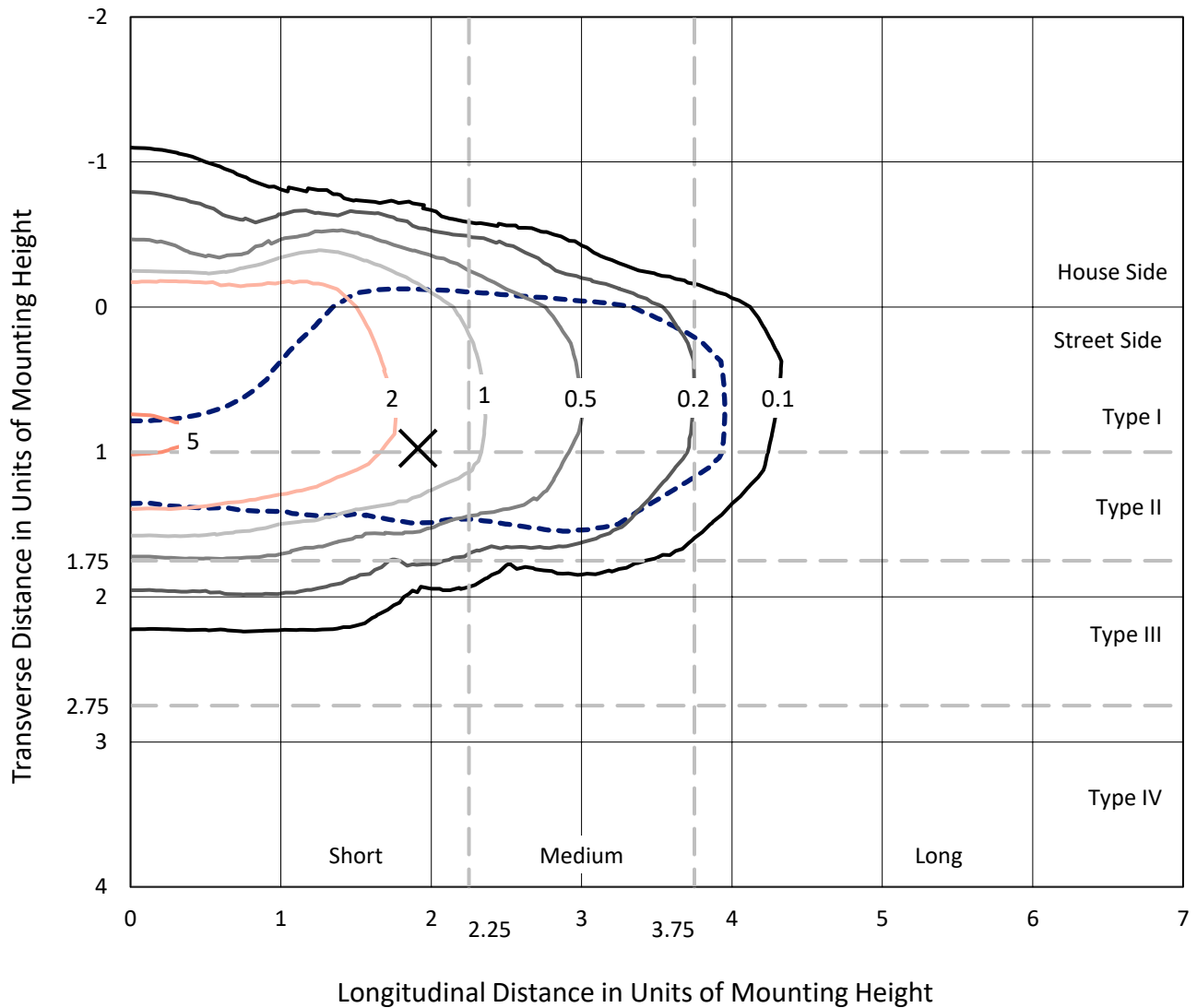
Lumens per Lamp: N/A  
Luminaire Lumens: 16426 lumens  
Efficiency: N/A  
Efficacy: 110.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 149.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

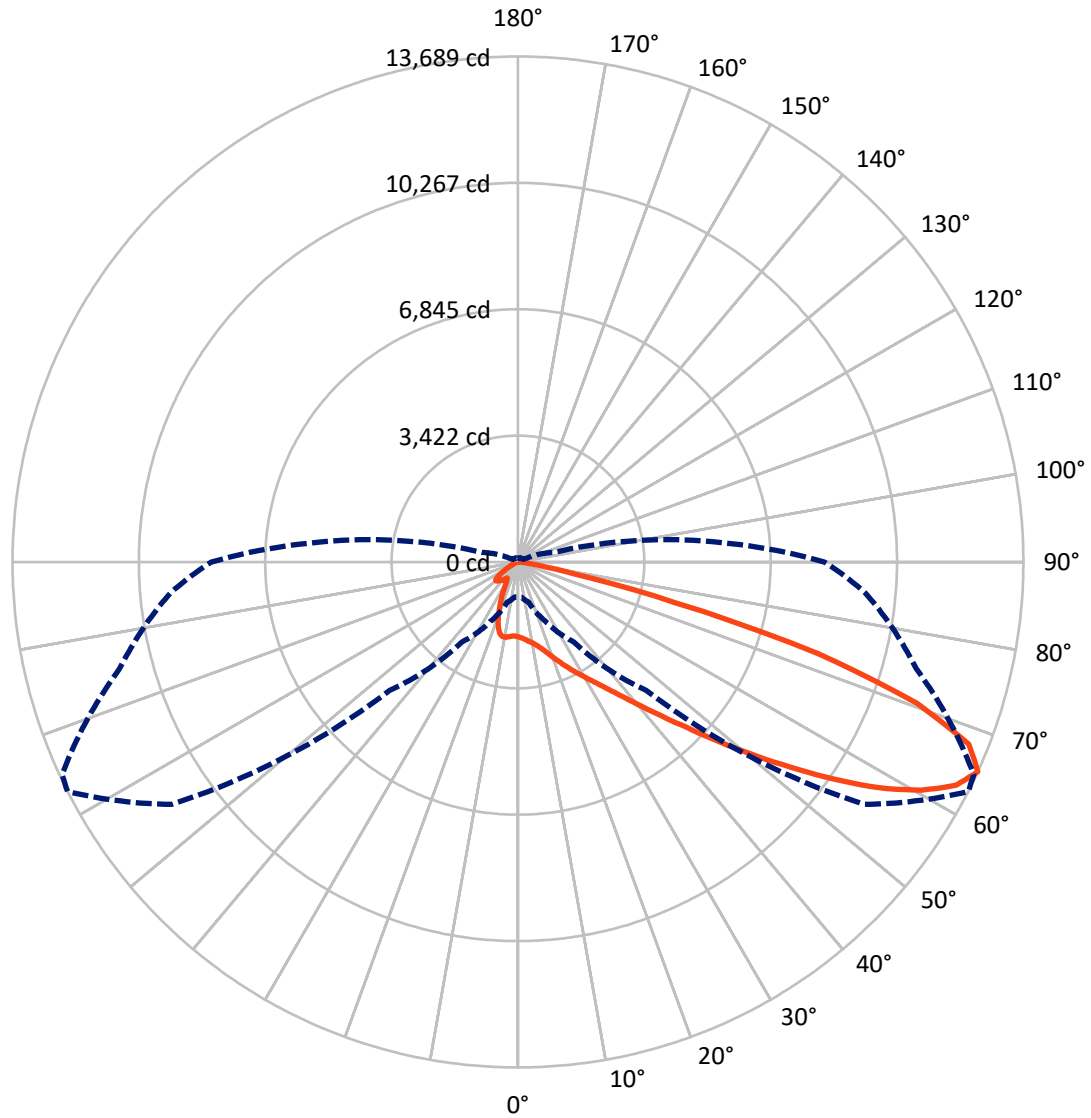
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc  
 Type 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	2414.5	0.0	2414.5
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	14011.5	0.0	14011.5
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	16426.0	0.0	16426.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	191.0	1.2
10°-20°	530.0	3.2
20°-30°	922.8	5.6
30°-40°	1663.3	10.1
40°-50°	3298.8	20.1
50°-60°	4493.6	27.4
60°-70°	3586.7	21.8
70°-80°	1623.1	9.9
80°-90°	116.7	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°	16426.0	100.0
0°-180°	16426.0	100.0

**Coefficient of Utilization**



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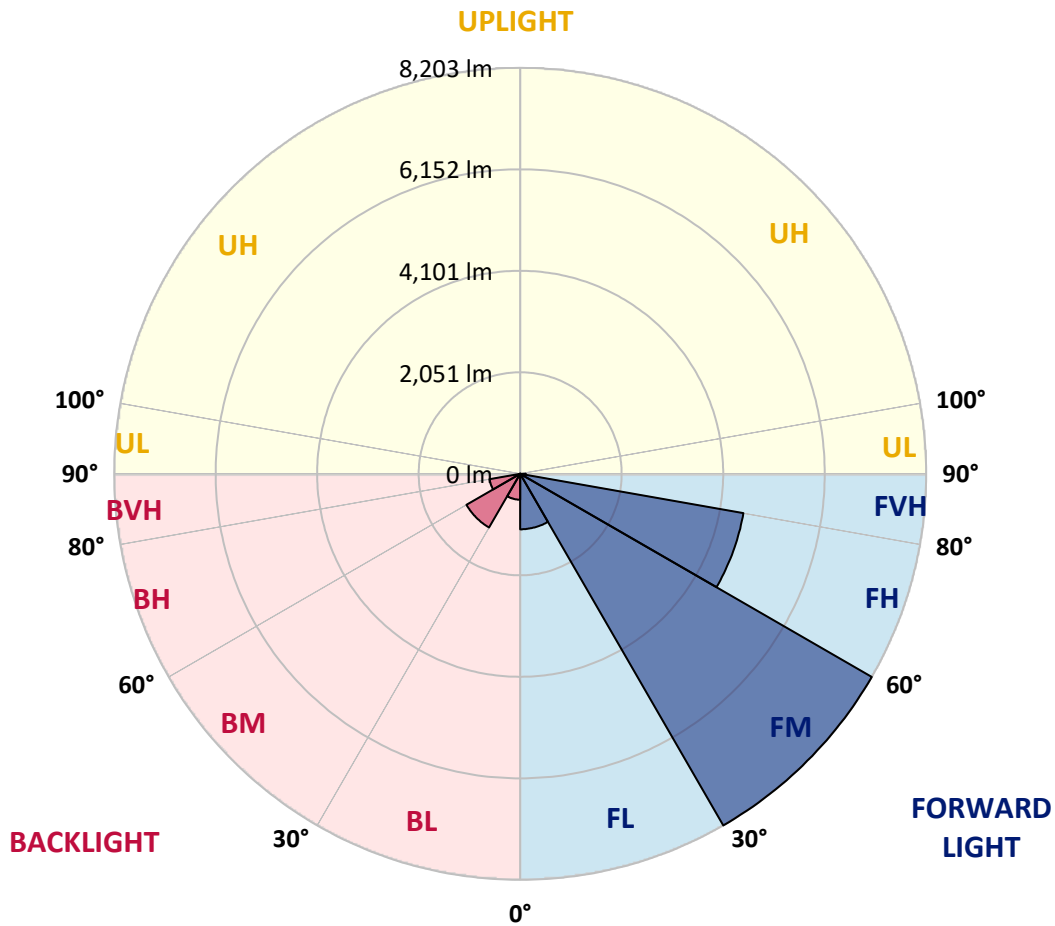
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1121.3	6.8			
FM (30°-60°)	8202.7	49.9			
FH (60°-80°)	4579.5	27.9			G2/5000
FVH (80°-90°)	108.0	0.7			G2/225
BL (0°-30°)	522.5	3.2	B2/1000		
BM (30°-60°)	1253.0	7.6	B2/2500		
BH (60°-80°)	630.3	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



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	2027.3	2027.3	2027.3	2027.3	2027.3	2027.3	2027.3	2027.3	2027.3	2027.3
2.5°	2074.7	2069.1	2077.0	2073.6	2071.4	2066.8	2064.6	2062.3	2057.8	2054.4
5°	2080.4	2077.0	2084.9	2091.7	2098.5	2105.3	2108.6	2113.2	2108.6	2099.6
7.5°	2032.9	2030.7	2047.6	2068.0	2098.5	2124.5	2152.7	2168.5	2169.7	2166.3
10°	2029.5	2023.9	2040.8	2065.7	2105.3	2151.6	2201.3	2235.2	2239.7	2254.4
12.5°	2082.7	2077.0	2100.7	2127.9	2168.5	2217.1	2278.1	2325.6	2332.4	2352.7
15°	2171.9	2164.0	2191.1	2226.2	2278.1	2333.5	2397.9	2440.9	2446.5	2471.4
17.5°	2275.9	2268.0	2299.6	2336.9	2393.4	2469.1	2543.7	2591.2	2597.9	2613.8
20°	2409.2	2399.1	2423.9	2457.8	2517.7	2608.1	2697.4	2765.2	2764.1	2764.1
22.5°	2564.0	2548.2	2569.7	2596.8	2653.3	2762.9	2881.6	2961.8	2961.8	2930.2
25°	2730.2	2714.3	2738.1	2762.9	2812.7	2937.0	3075.9	3175.4	3179.9	3125.7
27.5°	2938.1	2917.7	2935.8	2965.2	2994.6	3121.2	3286.1	3401.4	3403.7	3320.0
30°	3338.1	3280.5	3224.0	3192.3	3205.9	3331.3	3507.6	3635.3	3646.6	3531.4
32.5°	4070.4	4059.1	3860.2	3600.3	3464.7	3557.3	3755.1	3908.8	3915.6	3767.5
35°	5208.3	5194.8	4875.0	4380.0	3938.2	3860.2	4055.7	4237.6	4233.1	4065.9
37.5°	6566.6	6554.2	6132.7	5470.5	4755.2	4317.9	4443.3	4634.3	4662.5	4443.3
40°	7727.2	7680.8	7414.1	6775.7	5840.0	5077.2	4994.7	5121.3	5150.7	4890.8
42.5°	8606.3	8566.8	8431.2	8032.3	7153.1	6200.5	5644.5	5693.1	5725.9	5414.0
45°	9061.7	9052.7	9106.9	9069.6	8491.1	7579.1	6573.4	6371.1	6383.6	5993.7
47.5°	9126.1	9121.6	9369.1	9719.4	9641.4	9134.1	7765.6	7216.4	7172.3	6648.0
50°	8746.5	8737.4	9212.0	9868.6	10409.9	10440.4	9119.4	8169.0	8071.8	7324.9
52.5°	7533.9	7531.7	8311.4	9404.1	10679.9	11584.0	10457.3	9215.4	9052.7	8041.3
55°	5797.1	5838.9	6732.7	8024.4	10187.2	12134.3	11658.5	10377.1	10127.4	8762.3
57.5°	4106.5	4167.6	5051.2	6201.6	8659.4	11808.8	12471.0	11541.0	11272.1	9481.0
60°	2205.8	2260.1	3144.9	4517.9	6442.3	10595.2	12899.3	12551.3	12297.0	10163.5
62.5°	1314.2	1332.3	1698.4	2916.6	4357.4	8094.4	12717.4	13320.8	13111.8	10736.4
65°	943.6	947.0	1131.2	1780.9	2645.4	4917.9	11441.6	13689.2	13624.8	11168.1
67.5°	794.4	792.2	869.0	1183.1	1802.4	2463.5	8769.1	13168.3	13441.7	11441.6
70°	681.4	684.8	775.2	866.7	1354.9	1394.5	4359.7	11465.3	12048.4	11513.9
72.5°	507.4	518.7	602.3	789.9	1022.7	959.4	1505.2	8501.2	9555.6	10848.3
75°	358.2	363.9	423.8	664.5	762.8	698.4	768.4	4394.7	5746.2	8317.0
77.5°	275.7	285.9	320.9	464.4	751.5	490.4	470.1	1521.0	2336.9	5024.1
80°	149.2	167.2	231.7	335.6	527.7	346.9	232.8	605.7	792.2	2349.3
82.5°	76.8	85.9	161.6	241.8	300.6	302.8	115.3	252.0	326.6	725.5
85°	30.5	37.3	108.5	133.3	154.8	149.2	52.0	101.7	117.5	201.1
87.5°	6.8	11.3	39.6	30.5	29.4	31.6	12.4	23.7	22.6	23.7
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°
2027.3	0°	2027.3	2027.3	2027.3	2027.3	2027.3	2027.3	2027.3	2027.3	2027.3	2027.3
2040.8	2.5°	2039.7	2035.2	2022.8	2009.2	1993.4	1984.3	1978.7	1977.6	1969.6	1964.0
2086.0	5°	2073.6	2069.1	2045.4	2017.1	1986.6	1962.9	1940.3	1919.9	1890.5	1884.9
2151.6	7.5°	2141.4	2129.0	2090.6	2052.1	1994.5	1925.6	1842.0	1745.9	1660.0	1634.0
2238.6	10°	2225.0	2208.1	2159.5	2091.7	1964.0	1776.4	1574.1	1386.6	1237.4	1195.6
2341.4	12.5°	2320.0	2305.3	2240.9	2115.4	1836.3	1496.2	1186.5	953.7	809.1	772.9
2451.0	15°	2433.0	2411.5	2322.2	2079.3	1608.0	1136.8	814.8	676.9	624.9	618.1
2576.5	17.5°	2552.7	2517.7	2394.5	1949.3	1300.7	808.0	629.4	589.9	567.3	560.5
2703.0	20°	2662.4	2617.2	2437.5	1752.7	971.8	629.4	563.9	537.9	517.6	509.6
2829.6	22.5°	2772.0	2707.6	2437.5	1484.9	728.9	558.2	517.6	493.8	470.1	459.9
2965.2	25°	2886.1	2800.2	2394.5	1186.5	586.5	511.9	473.5	447.5	427.2	414.7
3094.0	27.5°	2996.8	2878.2	2296.2	904.0	522.1	471.2	432.8	407.9	388.7	379.7
3234.2	30°	3101.9	2955.0	2158.4	685.9	480.3	431.7	395.5	374.0	354.8	345.8
3416.1	32.5°	3244.3	3052.2	2011.5	562.8	444.1	394.4	361.6	341.3	324.3	317.5
3652.3	35°	3442.1	3195.7	1884.9	552.6	413.6	363.9	331.1	311.9	294.9	289.3
3957.4	37.5°	3722.3	3427.4	1818.2	620.4	388.7	336.7	306.2	285.9	270.1	265.6
4345.0	40°	4068.1	3741.5	1854.4	688.2	371.8	313.0	283.6	263.3	249.7	244.1
4790.2	42.5°	4478.3	4129.1	2054.4	740.2	360.5	292.7	262.2	239.6	230.5	228.3
5295.3	45°	4949.5	4555.2	2360.6	795.5	342.4	273.5	240.7	223.7	217.0	215.8
5844.5	47.5°	5485.2	5023.0	2715.5	864.5	324.3	255.4	223.7	212.4	206.8	204.5
6417.5	50°	6016.3	5494.2	3080.5	902.9	309.6	238.4	210.2	201.1	196.6	195.5
7023.2	52.5°	6572.3	5979.0	3375.4	866.7	297.2	224.9	198.9	192.1	187.6	186.5
7581.4	55°	7102.3	6371.1	3426.3	735.7	272.3	211.3	186.5	183.1	177.4	177.4
8147.5	57.5°	7558.8	6567.8	3066.9	540.2	247.5	191.0	174.0	170.6	166.1	165.0
8658.3	60°	7978.0	6511.2	2367.4	363.9	220.4	170.6	158.2	155.9	151.4	145.8
9102.4	62.5°	8214.2	6262.6	1619.3	237.3	193.2	149.2	140.1	139.0	128.8	117.5
9431.3	65°	8303.5	5751.9	1010.2	172.9	161.6	127.7	120.9	118.7	104.0	91.5
9617.7	67.5°	8225.5	4911.1	509.6	136.7	127.7	106.2	99.4	99.4	89.3	78.0
9606.4	70°	7913.6	3681.6	214.7	109.6	98.3	81.4	81.4	85.9	75.7	63.3
9108.1	72.5°	7236.7	2477.0	114.1	83.6	73.5	57.6	66.7	70.1	59.9	47.5
7454.8	75°	5753.0	1510.9	79.1	62.2	46.3	40.7	50.9	53.1	40.7	31.6
5111.1	77.5°	3934.8	867.9	53.1	39.6	29.4	23.7	35.0	32.8	21.5	14.7
1970.8	80°	1727.8	361.6	30.5	18.1	11.3	9.0	12.4	9.0	6.8	4.5
270.1	82.5°	202.3	84.8	11.3	6.8	4.5	2.3	1.1	0.0	0.0	0.0
82.5	85°	41.8	10.2	5.7	2.3	1.1	0.0	0.0	0.0	0.0	0.0
14.7	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

<u>180°</u>
2027.3
1969.6
1882.6
1621.6
1179.8
762.8
611.3
557.1
505.1
454.3
410.2
379.7
346.9
317.5
289.3
264.4
243.0
228.3
214.7
204.5
195.5
186.5
176.3
163.9
144.6
115.3
90.4
76.8
62.2
47.5
30.5
15.8
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