

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: P945707

Luminaire Tested: **GALN-SB1C-827-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945707  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1C-827-U-T2U  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6602 lumens  
Efficiency: N/A  
Efficacy: 121.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

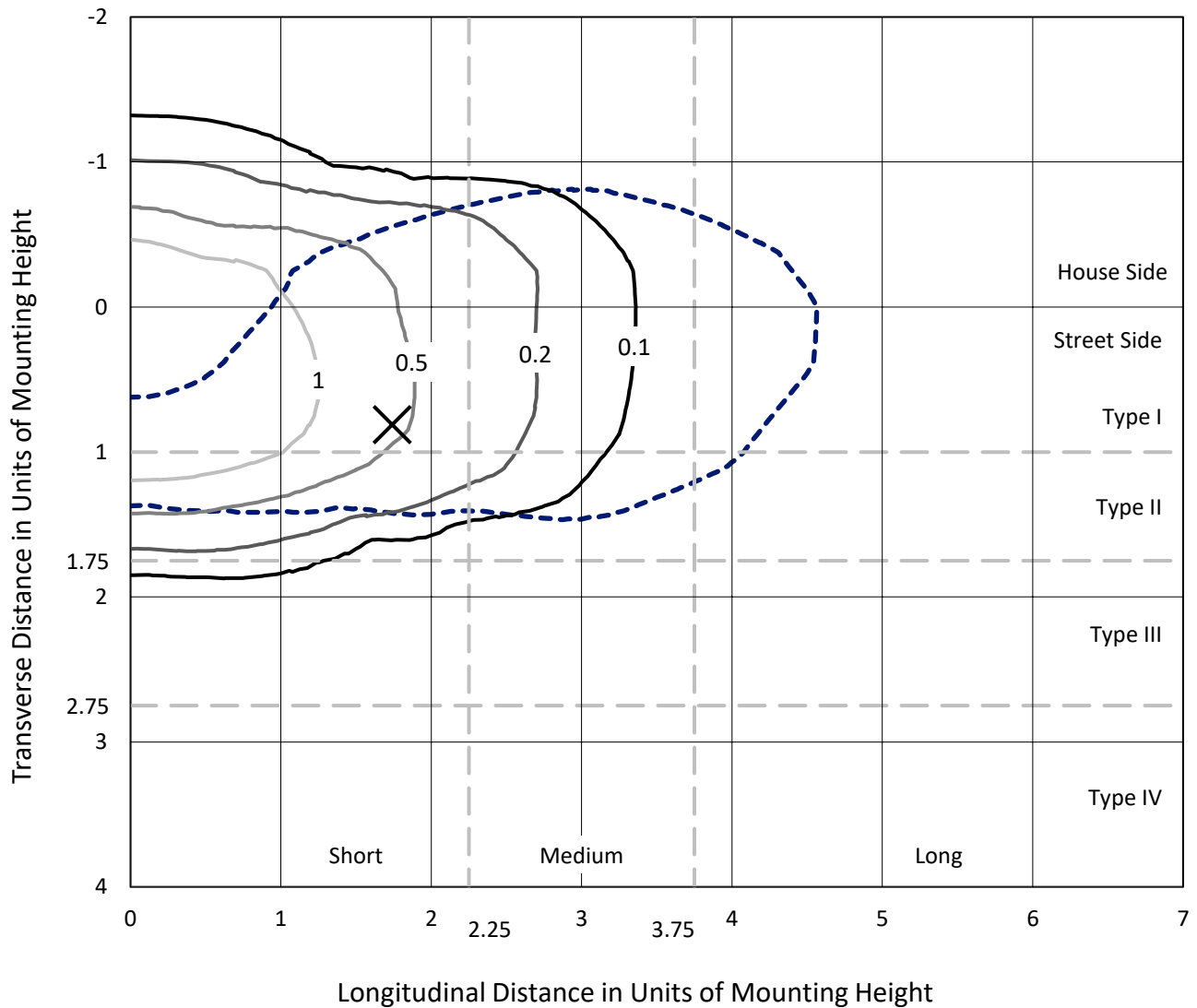
Input Watts (W): 54.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

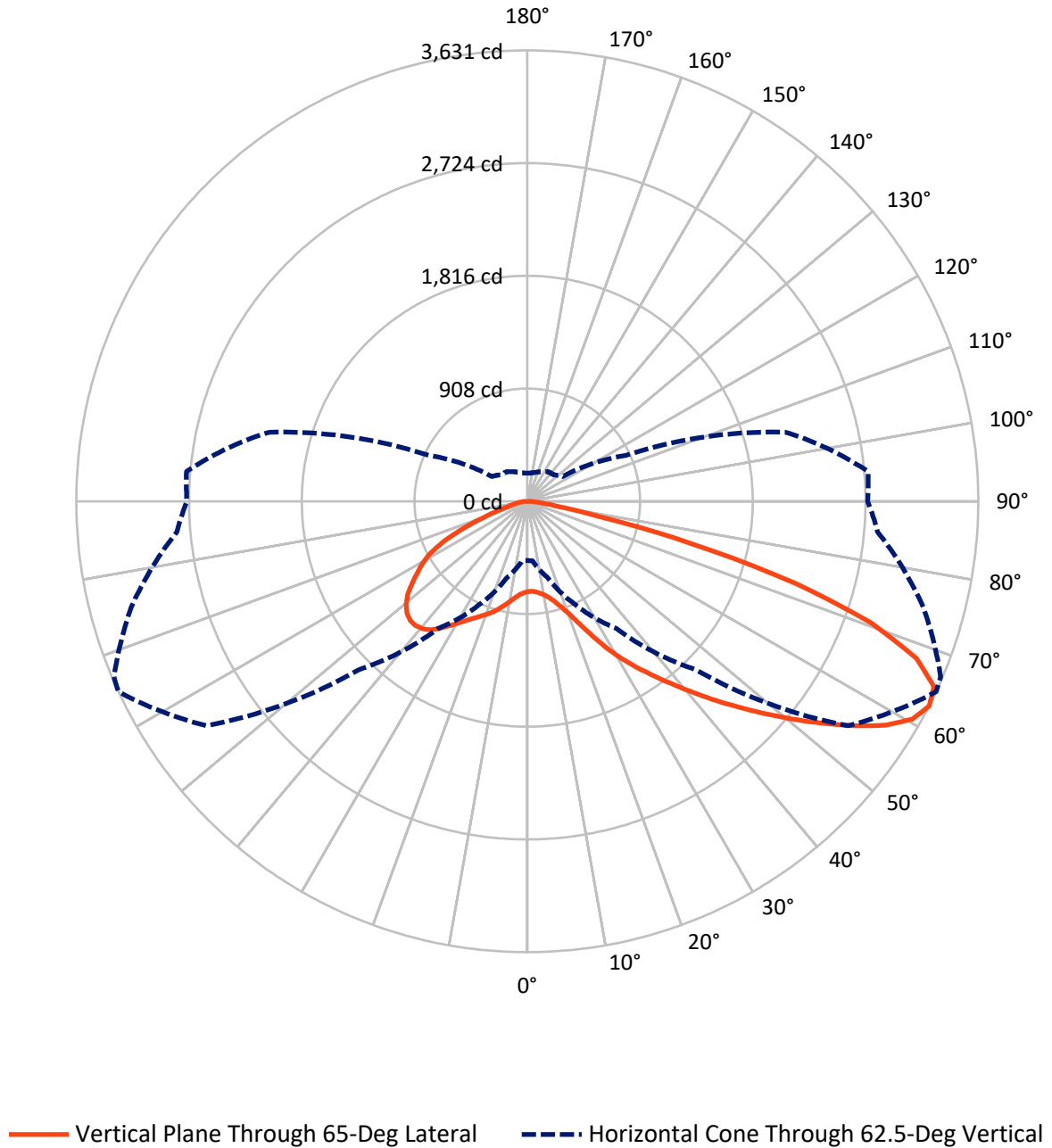
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2083.3	0.0	2083.3
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	4518.7	0.0	4518.7
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	6602.0	0.0	6602.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.5	1.1
10°-20°	246.0	3.7
20°-30°	498.7	7.6
30°-40°	863.0	13.1
40°-50°	1306.0	19.8
50°-60°	1531.2	23.2
60°-70°	1283.7	19.4
70°-80°	708.7	10.7
80°-90°	92.1	1.4
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°	6602.0	100.0
0°-180°	6602.0	100.0



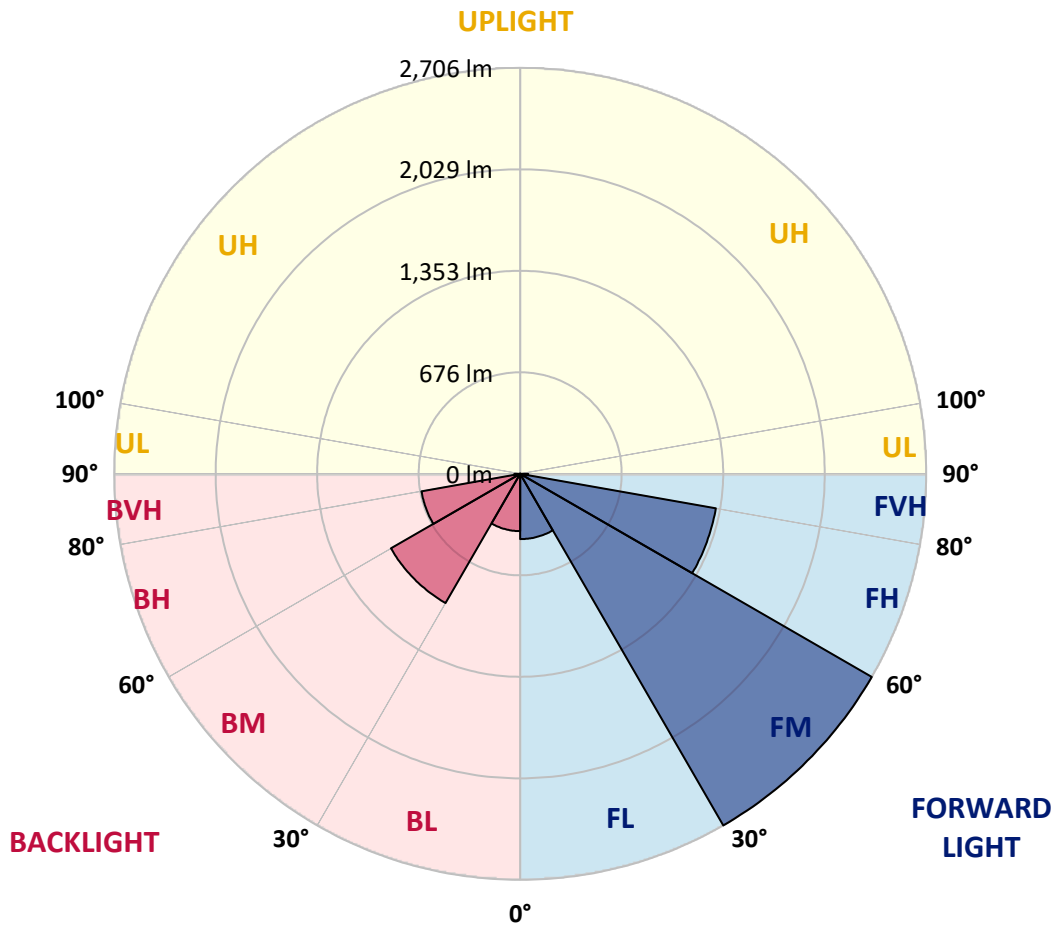
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	435.2	6.6			
FM (30°-60°)	2705.7	41.0			
FH (60°-80°)	1324.2	20.1			G1/1800
FVH (80°-90°)	53.7	0.8			G1/100
BL (0°-30°)	382.1	5.8	B1/500		
BM (30°-60°)	994.5	15.1	B1/1000		
BH (60°-80°)	668.3	10.1	B2/1000		G2/1000
BVH (80°-90°)	38.4	0.6			G1/100
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°	65°	67°	75°
0°	727.5	727.5	727.5	727.5	727.5	727.5	727.5	727.5	727.5	727.5
2.5°	722.7	720.7	722.4	722.4	723.1	722.7	725.1	725.8	726.8	728.9
5°	715.5	715.2	718.3	721.0	723.7	726.1	729.2	733.7	734.4	736.8
7.5°	713.1	711.1	715.9	719.3	725.8	731.6	739.8	747.4	750.5	751.5
10°	731.6	728.2	732.6	734.7	740.2	746.0	755.6	767.6	771.0	775.1
12.5°	763.1	759.4	765.9	769.0	774.1	779.2	785.7	797.4	799.1	806.6
15°	806.3	801.8	805.9	809.7	818.3	823.1	829.6	840.9	840.9	846.7
17.5°	864.9	859.0	862.1	863.5	869.0	876.2	887.1	897.1	902.2	900.1
20°	952.2	945.0	945.0	938.2	936.1	941.9	956.3	970.0	975.5	964.9
22.5°	1083.4	1073.1	1067.3	1044.0	1034.8	1035.4	1049.8	1066.6	1071.1	1052.2
25°	1250.2	1234.1	1226.2	1192.0	1171.1	1152.9	1164.2	1185.8	1192.0	1168.7
27.5°	1417.0	1418.0	1410.5	1369.4	1334.8	1301.6	1295.8	1318.4	1324.9	1298.5
30°	1650.9	1626.6	1612.2	1562.9	1513.6	1467.0	1443.0	1452.3	1454.0	1422.5
32.5°	1852.7	1846.5	1815.7	1772.5	1709.2	1636.2	1596.1	1581.4	1578.7	1533.8
35°	2082.5	2079.1	2046.6	1995.2	1926.7	1825.3	1753.0	1710.9	1707.5	1644.4
37.5°	2316.1	2316.1	2284.3	2228.1	2157.2	2030.5	1920.5	1853.7	1842.8	1760.6
40°	2502.4	2491.1	2497.0	2473.3	2392.2	2257.5	2106.5	2009.6	1994.8	1896.2
42.5°	2608.3	2604.5	2639.5	2665.8	2632.6	2525.1	2311.3	2178.4	2157.9	2045.5
45°	2631.9	2627.8	2690.1	2786.7	2833.3	2789.1	2534.0	2356.2	2331.2	2201.7
47.5°	2577.5	2569.2	2660.7	2813.1	2962.5	3040.2	2775.1	2549.0	2512.7	2353.8
50°	2413.7	2405.9	2544.2	2746.7	3006.0	3210.8	3036.8	2753.5	2698.0	2516.8
52.5°	2057.9	2061.6	2278.4	2556.6	2948.8	3317.0	3262.2	2969.0	2902.2	2683.6
55°	1603.0	1611.2	1877.7	2183.9	2719.9	3300.9	3415.9	3190.9	3124.5	2840.5
57.5°	1147.8	1184.1	1433.8	1736.9	2280.5	3045.7	3449.5	3401.9	3337.5	3011.8
60°	744.0	750.5	1007.4	1312.9	1736.6	2592.2	3381.4	3561.9	3511.5	3186.5
62.5°	476.8	481.2	637.8	918.3	1249.9	1917.8	3151.9	3631.4	3616.0	3301.9
65°	350.4	347.0	428.5	606.9	841.9	1182.7	2706.2	3597.8	3628.3	3374.2
67.5°	292.5	287.7	327.8	420.3	620.3	671.7	2002.4	3379.6	3491.3	3365.9
70°	266.5	262.4	286.7	312.0	484.0	449.7	1009.4	2938.1	3110.1	3272.4
72.5°	225.7	218.5	251.8	277.1	376.4	344.9	417.2	2256.9	2466.5	2972.7
75°	175.0	170.2	198.7	243.9	282.9	269.2	263.7	1370.4	1599.2	2299.0
77.5°	138.7	132.2	158.2	190.1	254.5	203.1	192.2	590.2	816.9	1467.7
80°	104.5	98.6	120.2	150.4	195.6	153.1	124.3	240.8	307.9	743.6
82.5°	74.3	69.2	83.9	110.3	131.5	137.4	76.4	135.0	151.7	286.7
85°	47.6	44.5	56.2	69.2	83.6	88.4	46.6	70.6	77.4	118.2
87.5°	26.0	21.2	30.1	32.2	38.7	35.3	22.3	25.7	27.7	42.8
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°
727.5	0°	727.5	727.5	727.5	727.5	727.5	727.5	727.5	727.5	727.5	727.5
728.9	2.5°	730.3	731.3	734.7	735.7	738.1	741.2	743.3	745.3	745.3	747.4
739.8	5°	740.2	742.6	749.8	753.5	759.7	765.9	769.6	774.1	776.8	778.2
757.3	7.5°	759.4	763.1	773.4	779.9	790.5	799.1	804.9	811.1	812.5	816.2
781.6	10°	785.4	789.9	801.5	813.8	826.5	837.1	842.6	847.1	848.8	849.4
812.8	12.5°	815.2	821.7	836.8	851.8	865.2	874.5	875.8	874.8	870.0	865.9
851.2	15°	851.8	857.7	874.5	890.9	903.9	905.6	897.1	891.6	885.8	884.7
894.0	17.5°	895.7	898.8	914.2	930.3	931.3	925.5	912.8	907.7	902.2	898.4
949.8	20°	946.7	945.7	956.7	963.5	956.3	938.5	919.3	910.8	905.3	900.8
1018.3	22.5°	1007.7	999.8	998.4	996.7	977.6	940.2	914.2	903.2	894.7	888.5
1113.9	25°	1096.4	1066.3	1045.4	1033.7	990.6	931.0	897.7	873.4	857.3	846.7
1230.7	27.5°	1207.4	1156.7	1103.9	1075.5	990.6	912.1	858.0	818.6	792.2	781.3
1343.7	30°	1313.2	1260.1	1182.4	1125.9	988.2	881.3	794.0	739.2	708.3	697.4
1440.3	32.5°	1403.6	1345.8	1265.6	1181.0	982.3	831.3	714.5	653.9	624.1	611.1
1535.9	35°	1487.6	1425.9	1349.2	1241.6	966.9	758.0	627.2	580.9	547.7	526.8
1633.1	37.5°	1573.5	1500.2	1428.3	1296.4	939.2	672.4	560.0	520.6	481.6	453.5
1736.6	40°	1667.0	1579.4	1512.9	1329.0	893.6	590.8	508.0	472.0	430.5	400.7
1855.8	42.5°	1776.3	1674.2	1607.1	1345.8	831.3	533.0	474.0	438.8	399.7	375.4
1983.5	45°	1890.4	1778.7	1693.1	1345.4	761.8	505.9	463.1	428.1	385.0	359.6
2114.7	47.5°	2009.9	1888.0	1767.4	1323.5	701.5	509.7	456.9	405.2	357.6	332.9
2247.3	50°	2129.8	2007.5	1839.3	1282.4	675.8	501.4	434.0	373.0	316.8	294.6
2371.6	52.5°	2248.6	2134.6	1901.3	1223.8	649.8	471.0	404.5	331.2	300.0	284.6
2500.1	55°	2368.2	2260.3	1968.8	1138.5	584.7	435.3	355.2	315.5	286.7	272.6
2625.8	57.5°	2488.1	2405.5	2032.9	1053.2	502.8	391.5	328.1	296.3	273.3	261.3
2730.9	60°	2612.7	2571.6	2099.0	974.8	422.0	335.3	308.3	280.9	257.6	244.2
2832.0	62.5°	2741.2	2754.5	2150.7	873.8	347.7	301.1	290.5	262.4	239.8	227.1
2915.5	65°	2870.7	2930.9	2184.6	733.7	281.9	268.5	271.3	242.2	219.2	208.3
2976.8	67.5°	2968.3	3058.0	2175.0	555.2	231.2	237.7	247.3	220.9	199.3	190.8
2966.9	70°	2979.2	3042.9	2080.5	380.2	193.5	207.6	220.6	200.0	177.8	171.6
2827.2	72.5°	2833.3	2837.4	1817.1	248.3	163.7	182.2	192.5	178.8	157.2	151.1
2473.3	75°	2450.7	2346.6	1334.1	163.7	137.0	156.5	166.1	156.5	135.6	137.0
1850.6	77.5°	1856.8	1661.9	810.1	116.5	114.4	131.5	144.5	137.7	119.9	134.6
930.6	80°	956.7	899.1	361.4	87.0	90.4	105.2	118.9	109.9	94.9	90.4
207.9	82.5°	219.2	254.8	142.5	62.3	65.4	75.7	90.8	82.5	68.2	57.5
86.7	85°	76.7	83.9	63.0	39.0	38.4	47.3	61.7	55.1	46.2	37.0
36.6	87.5°	24.3	31.9	23.6	15.8	16.4	21.2	28.4	26.0	21.6	14.0
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>
727.5
747.4
778.9
814.9
847.7
865.9
884.7
898.8
901.2
890.6
850.8
786.8
703.9
617.6
533.6
461.0
406.6
380.2
363.8
336.4
295.9
284.6
271.3
259.3
243.2
226.7
207.9
191.1
171.9
150.7
132.2
118.5
82.5
56.9
39.0
14.7
0.0

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