

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: P948208

Luminaire Tested: **GALN-SB3B-827-U-T3R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P948208  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB3B-827-U-T3R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

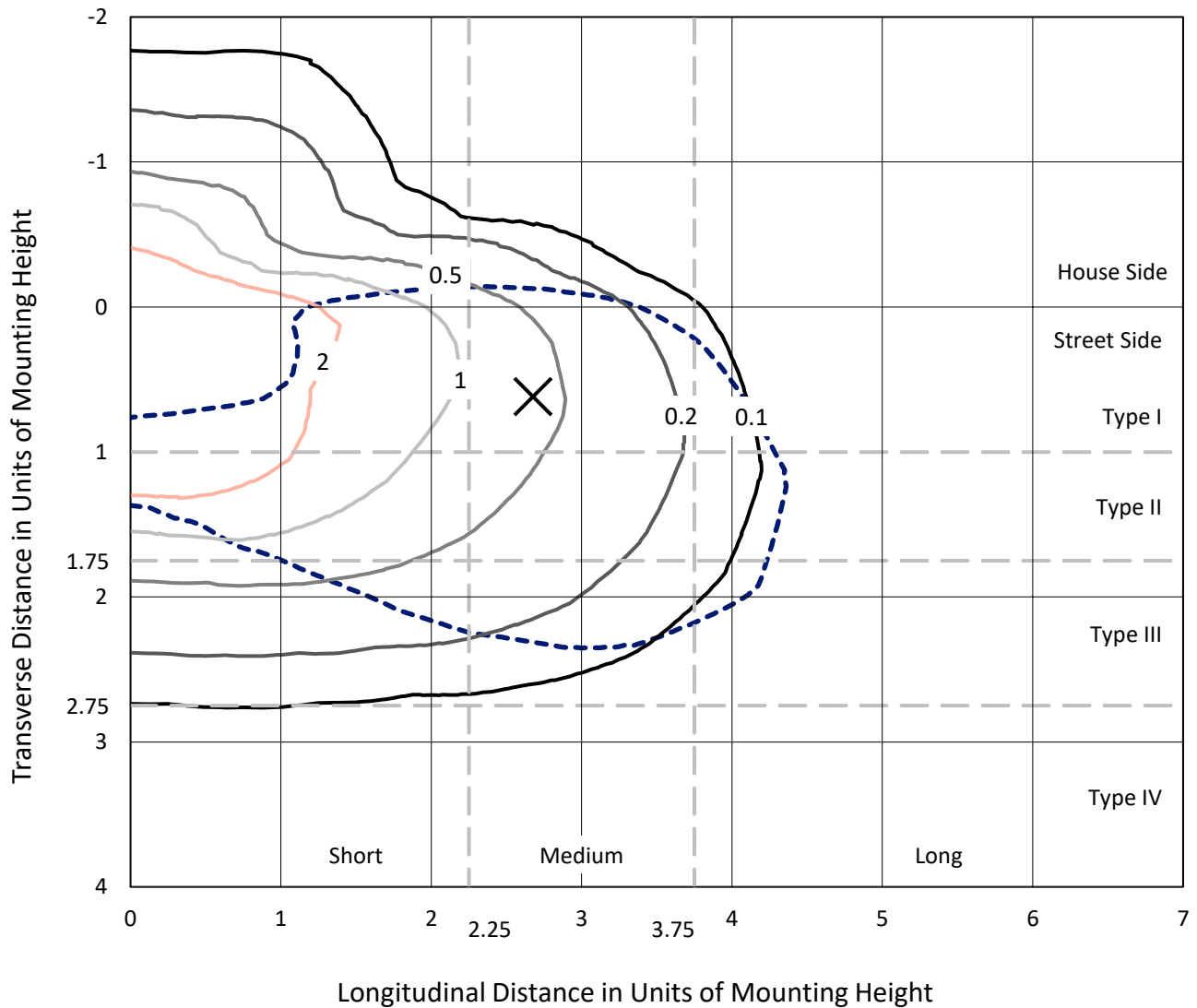
Lumens per Lamp: N/A  
Luminaire Lumens: 15082 lumens  
Efficiency: N/A  
Efficacy: 138.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 109.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

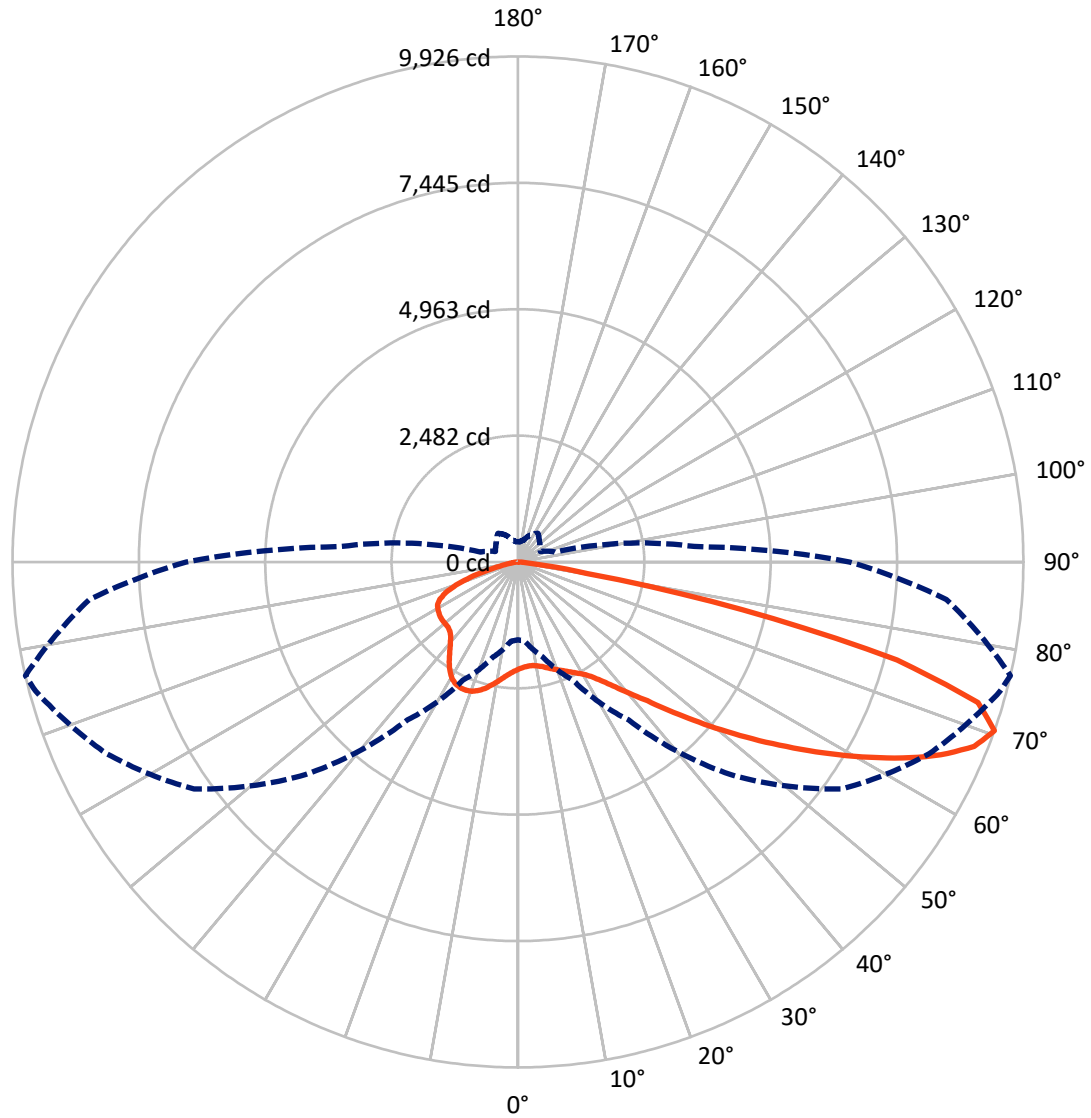
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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	3302.7	0.0	3302.7
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	11779.3	0.0	11779.3
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	15082.0	0.0	15082.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	200.7	1.3
10°-20°	579.2	3.8
20°-30°	990.4	6.6
30°-40°	1592.7	10.6
40°-50°	2486.7	16.5
50°-60°	3321.6	22.0
60°-70°	3540.3	23.5
70°-80°	2179.4	14.5
80°-90°	191.0	1.3
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°	15082.0	100.0
0°-180°	15082.0	100.0

**Coefficient of Utilization**



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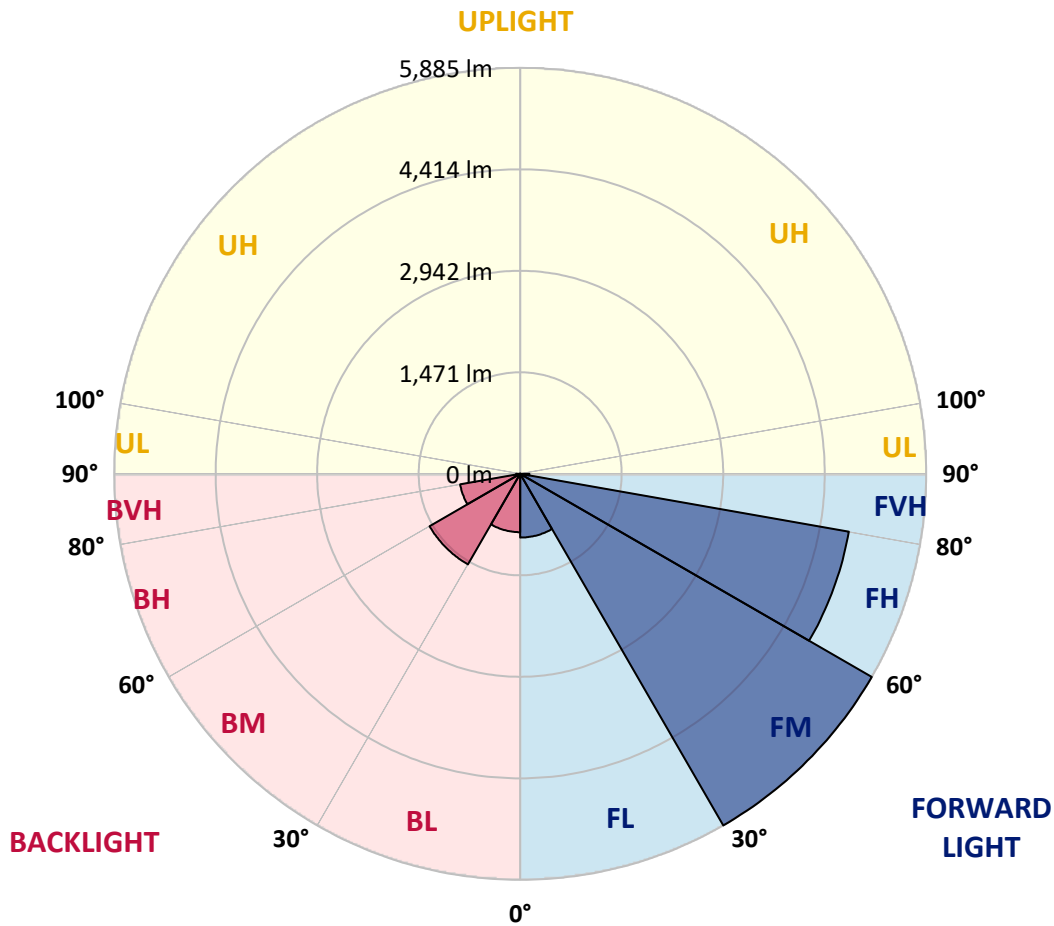
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	924.0	6.1			
FM (30°-60°)	5884.7	39.0			
FH (60°-80°)	4837.0	32.1			G2/5000
FVH (80°-90°)	133.5	0.9			G2/225
BL (0°-30°)	846.3	5.6	B2/1000		
BM (30°-60°)	1516.4	10.1	B2/2500		
BH (60°-80°)	882.7	5.9	B2/1000		G2/1000
BVH (80°-90°)	57.4	0.4			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 III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2104.1	2104.1	2104.1	2104.1	2104.1	2104.1	2104.1	2104.1	2104.1	2104.1
2.5°	1939.6	1938.8	1948.8	1951.9	1970.4	1983.6	2008.3	2034.6	2068.5	2072.4
5°	1827.5	1827.5	1839.1	1851.5	1875.4	1901.7	1939.6	1985.1	2043.8	2053.1
7.5°	1732.5	1738.7	1748.8	1772.7	1800.5	1838.4	1896.3	1961.2	2038.4	2053.1
10°	1656.1	1663.0	1675.4	1694.7	1736.4	1788.9	1864.6	1948.0	2051.6	2074.7
12.5°	1632.1	1639.1	1646.0	1660.7	1699.3	1761.1	1851.5	1954.2	2083.2	2106.4
15°	1687.7	1696.2	1690.8	1687.0	1707.1	1763.4	1857.7	1976.6	2122.6	2155.8
17.5°	1816.0	1819.1	1806.7	1770.4	1767.3	1797.4	1887.0	2007.5	2172.0	2208.4
20°	2023.0	2017.6	1992.1	1920.2	1879.3	1873.1	1937.2	2053.9	2223.0	2261.7
22.5°	2304.1	2298.0	2247.0	2133.4	2042.3	1982.0	2009.8	2114.1	2280.2	2323.4
25°	2654.8	2646.3	2571.4	2416.9	2275.6	2126.5	2108.7	2193.7	2350.5	2390.6
27.5°	3064.2	3057.2	2976.1	2772.2	2568.3	2324.2	2231.5	2287.1	2423.9	2469.4
30°	3504.5	3524.6	3380.9	3161.5	2903.5	2582.2	2396.8	2402.2	2518.9	2559.8
32.5°	4022.0	4056.8	3883.7	3605.7	3253.4	2862.6	2605.4	2562.9	2657.1	2691.1
35°	4534.9	4574.3	4430.6	4123.2	3717.7	3193.2	2823.2	2747.5	2841.0	2878.0
37.5°	4978.3	5030.8	4956.6	4689.4	4214.3	3591.8	3107.5	2964.6	3067.3	3113.6
40°	5328.2	5408.5	5403.1	5236.2	4799.8	4075.3	3468.2	3232.6	3348.4	3398.7
42.5°	5612.4	5681.9	5742.2	5733.7	5410.8	4624.5	3892.2	3580.9	3669.0	3726.9
45°	5808.6	5882.8	6012.5	6152.3	5998.6	5212.3	4378.1	3994.2	4074.5	4161.8
47.5°	5984.0	6068.1	6236.5	6458.2	6497.6	5802.4	4910.3	4475.4	4548.8	4639.2
50°	5999.4	6072.0	6333.1	6647.5	6852.2	6369.4	5481.9	5015.3	5084.1	5180.6
52.5°	5626.3	5740.6	6196.4	6642.1	7015.1	6843.7	6049.6	5576.9	5654.1	5770.0
55°	4367.3	4534.9	5795.5	6435.0	6957.2	7150.3	6589.5	6174.0	6272.8	6394.1
57.5°	3761.7	3835.1	4600.5	6058.1	6693.0	7229.9	7045.3	6777.2	6936.3	7069.2
60°	3380.9	3441.9	3894.5	5471.8	6345.4	7104.0	7397.5	7339.6	7614.5	7772.9
62.5°	2973.1	3031.0	3442.7	4568.9	5900.5	6894.6	7619.9	7858.6	8309.7	8482.7
65°	2568.3	2617.7	3012.4	3838.9	5335.1	6685.3	7735.0	8307.4	8953.1	9132.3
67.5°	2117.2	2158.1	2531.2	3238.8	4647.7	6398.7	7792.2	8660.4	9513.1	9666.9
70°	1527.9	1559.5	1945.0	2561.4	3784.9	5905.9	7769.0	8910.7	9803.6	9926.4
72.5°	722.2	750.8	1203.4	1663.0	2673.4	4946.6	7300.2	8712.1	9508.5	9447.5
75°	385.4	410.2	691.3	912.2	1412.0	3390.9	5973.9	7504.8	7984.5	7687.9
77.5°	261.1	280.4	427.9	547.6	645.0	1609.7	3839.7	5196.1	4999.1	4509.4
80°	207.0	227.1	350.7	370.8	312.1	581.6	1586.6	2405.3	1727.9	1381.9
82.5°	159.1	181.5	295.1	268.8	169.9	238.7	461.9	760.8	442.6	336.8
85°	97.3	121.3	231.7	171.5	95.8	108.9	156.8	211.6	135.2	112.8
87.5°	49.4	69.5	117.4	62.6	43.3	25.5	41.7	41.7	35.5	30.9
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°
2104.1	0°	2104.1	2104.1	2104.1	2104.1	2104.1	2104.1	2104.1	2104.1	2104.1	2104.1
2093.3	2.5°	2111.8	2127.2	2153.5	2178.2	2197.5	2216.1	2234.6	2244.7	2247.7	2260.1
2104.8	5°	2136.5	2165.1	2216.1	2264.0	2294.1	2312.6	2325.8	2333.5	2335.0	2338.9
2136.5	7.5°	2182.1	2227.7	2298.7	2346.6	2369.0	2367.5	2362.1	2342.8	2335.0	2328.1
2182.9	10°	2246.2	2306.5	2393.7	2426.9	2413.0	2376.0	2328.1	2271.7	2245.4	2219.9
2246.2	12.5°	2325.8	2402.2	2488.0	2486.4	2417.7	2322.7	2211.4	2124.9	2070.1	2030.7
2324.2	15°	2422.3	2510.4	2576.0	2523.5	2372.9	2202.2	2039.2	1926.4	1877.0	1833.7
2403.0	17.5°	2522.0	2616.2	2646.3	2511.9	2260.1	2023.7	1839.1	1750.3	1701.6	1678.5
2488.0	20°	2619.3	2712.7	2688.0	2445.5	2088.6	1821.4	1656.8	1608.2	1598.1	1603.5
2570.6	22.5°	2722.0	2805.4	2696.5	2317.3	1870.0	1614.4	1524.0	1525.5	1547.9	1564.2
2657.1	25°	2827.1	2883.5	2674.1	2131.9	1635.2	1462.2	1439.8	1464.5	1508.5	1540.2
2754.5	27.5°	2928.3	2953.0	2625.5	1902.5	1433.6	1353.3	1357.1	1408.1	1474.6	1518.6
2872.6	30°	3042.6	3014.8	2532.0	1644.5	1293.8	1259.8	1292.3	1351.7	1418.2	1457.6
3021.7	32.5°	3171.6	3068.1	2383.7	1405.8	1194.9	1184.9	1238.2	1276.8	1306.2	1317.8
3219.5	35°	3332.2	3143.0	2193.7	1238.2	1106.1	1130.1	1181.0	1161.7	1150.1	1144.0
3485.2	37.5°	3540.8	3244.2	1971.2	1129.3	1034.3	1090.7	1111.5	1051.3	1005.7	983.3
3807.3	40°	3791.8	3392.5	1757.3	1045.1	988.7	1056.7	1020.4	947.8	889.8	858.2
4169.5	42.5°	4070.7	3547.7	1577.3	981.7	963.2	1028.9	953.2	866.7	773.2	763.2
4601.3	45°	4363.4	3707.6	1454.5	933.1	950.9	1004.9	914.5	774.7	708.3	749.2
5034.6	47.5°	4656.2	3854.4	1380.3	896.8	944.7	977.9	880.6	723.8	676.6	736.1
5498.9	50°	4982.1	3985.7	1347.1	870.5	937.7	967.1	829.6	710.6	643.4	682.8
5979.3	52.5°	5305.8	4087.7	1322.4	844.3	927.7	958.6	804.9	695.2	603.3	605.6
6462.9	55°	5628.6	4154.1	1295.4	809.5	905.3	940.0	802.5	678.2	573.1	562.3
6974.2	57.5°	5973.1	4191.9	1262.1	770.9	866.7	892.9	800.2	665.1	563.9	546.1
7497.1	60°	6323.8	4247.5	1218.9	723.8	814.9	836.5	794.8	660.4	558.5	528.3
7989.9	62.5°	6638.2	4266.9	1167.1	679.0	748.5	780.9	783.2	656.6	543.8	492.0
8399.3	65°	6844.4	4183.4	1076.8	628.0	676.6	723.8	760.8	643.4	517.5	465.8
8601.7	67.5°	6835.9	3945.5	935.4	562.3	607.1	660.4	728.4	621.0	485.9	433.3
8448.7	70°	6517.7	3475.9	756.2	485.9	530.7	592.4	686.7	587.8	448.0	397.8
7512.6	72.5°	5590.0	2720.5	549.2	396.3	441.8	522.2	632.6	547.6	409.4	366.1
5552.2	75°	3993.4	1721.7	372.3	304.3	343.7	442.6	565.4	500.5	373.9	367.7
2780.7	77.5°	2040.0	822.6	246.4	222.5	239.5	349.1	475.0	447.2	379.3	303.6
791.0	80°	663.5	303.6	155.3	151.4	159.1	232.5	367.7	366.9	287.3	206.2
191.6	82.5°	211.6	130.5	101.2	97.3	93.5	146.0	256.4	290.4	193.9	130.5
68.7	85°	84.2	78.0	59.5	54.8	39.4	68.7	134.4	193.1	144.4	94.2
17.8	87.5°	30.9	30.9	16.2	11.6	8.5	23.2	36.3	57.9	82.6	48.7
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>
2104.1
2267.1
2345.1
2329.6
2212.2
2021.4
1829.1
1685.4
1601.2
1568.0
1548.7
1529.4
1466.8
1323.9
1150.1
988.7
860.5
773.2
770.9
763.9
712.2
621.8
570.0
548.4
530.7
492.0
465.8
435.6
402.4
363.8
346.8
270.3
182.3
129.8
96.6
47.9
0.0

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