

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: P947137

Luminaire Tested: **GALN-SB2C-827-U-T3R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947137  
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-SB2C-827-U-T3R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

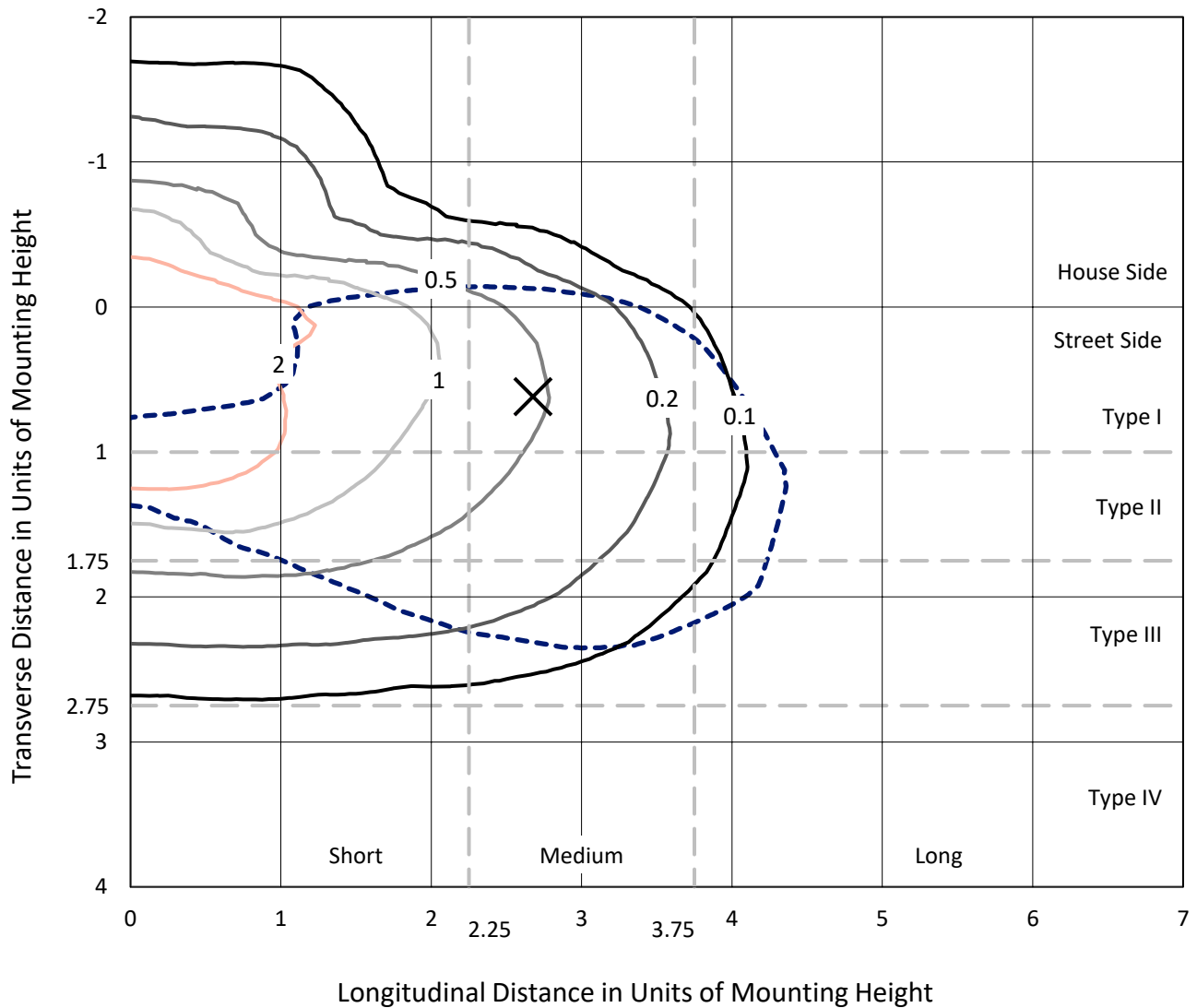
Lumens per Lamp: N/A  
Luminaire Lumens: 13370 lumens  
Efficiency: N/A  
Efficacy: 132.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 100.9  
Input Voltage (V): NR  
Input Current (Ain): 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

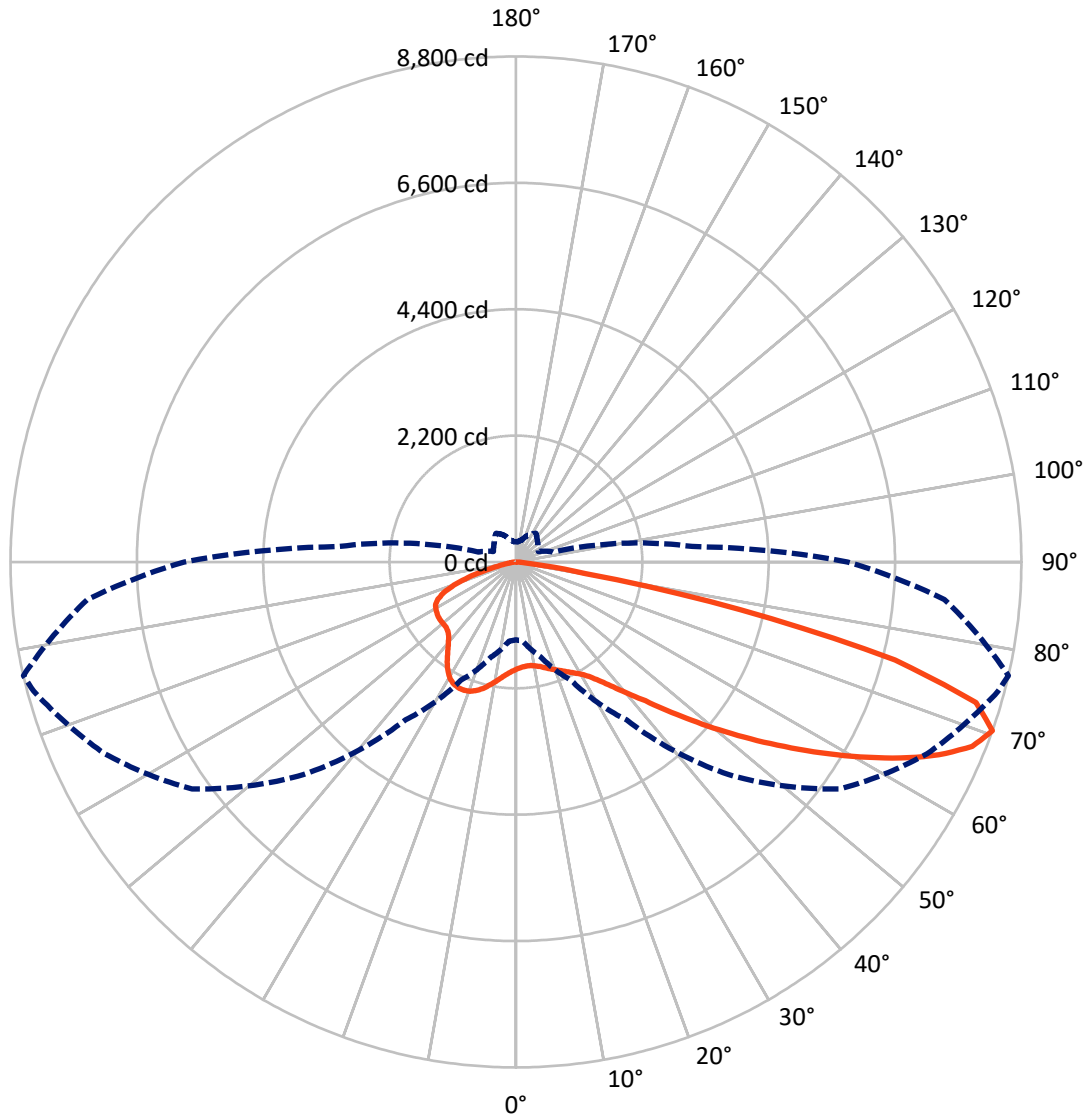
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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	2927.8	0.0	2927.8
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	10442.2	0.0	10442.2
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	13370.0	0.0	13370.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	177.9	1.3
10°-20°	513.4	3.8
20°-30°	878.0	6.6
30°-40°	1411.9	10.6
40°-50°	2204.4	16.5
50°-60°	2944.6	22.0
60°-70°	3138.5	23.5
70°-80°	1932.0	14.5
80°-90°	169.3	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°	13370.0	100.0
0°-180°	13370.0	100.0



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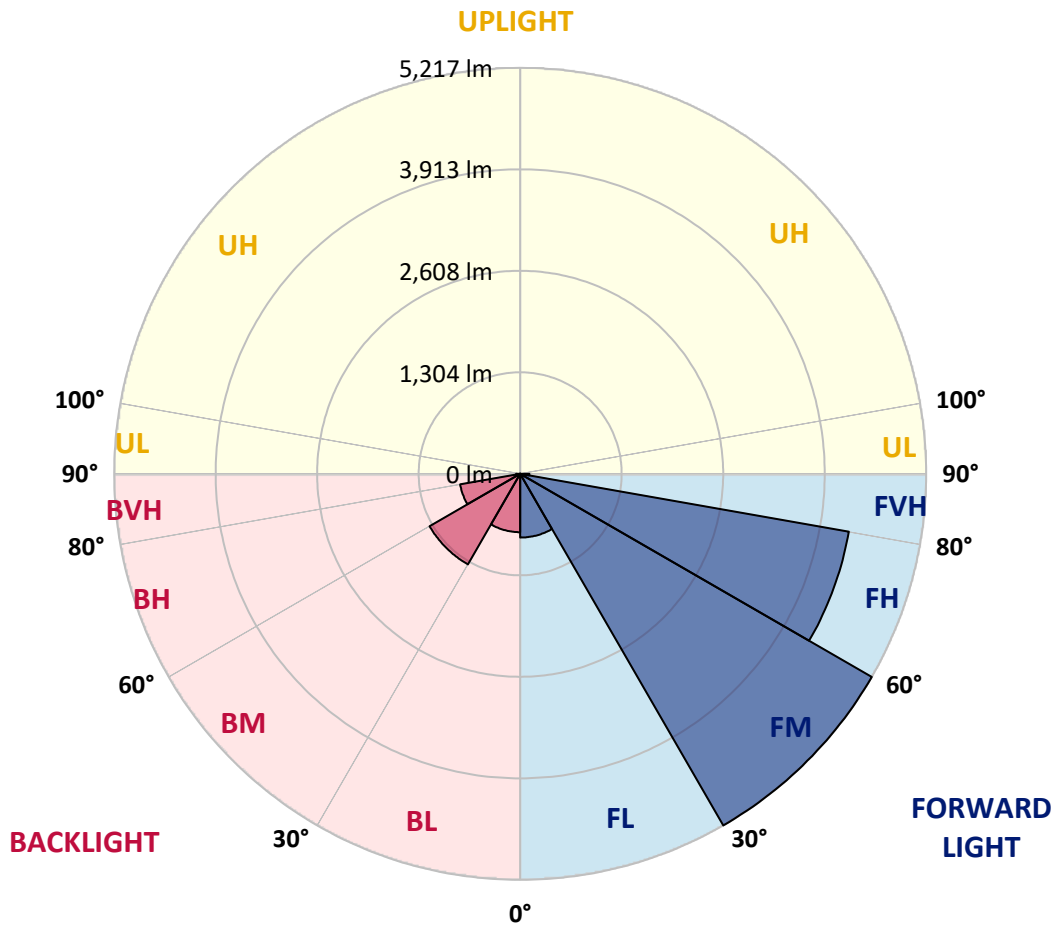
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	819.1	6.1			
FM (30°-60°)	5216.7	39.0			
FH (60°-80°)	4288.0	32.1			G2/5000
FVH (80°-90°)	118.4	0.9			G2/225
BL (0°-30°)	750.2	5.6	B2/1000		
BM (30°-60°)	1344.2	10.1	B2/2500		
BH (60°-80°)	782.5	5.9	B2/1000		G2/1000
BVH (80°-90°)	50.9	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°	1865.2	1865.2	1865.2	1865.2	1865.2	1865.2	1865.2	1865.2	1865.2	1865.2
2.5°	1719.4	1718.7	1727.6	1730.3	1746.8	1758.4	1780.3	1803.6	1833.7	1837.2
5°	1620.1	1620.1	1630.4	1641.3	1662.6	1685.8	1719.4	1759.8	1811.8	1820.0
7.5°	1535.9	1541.4	1550.3	1571.5	1596.1	1629.7	1681.0	1738.6	1807.0	1820.0
10°	1468.1	1474.2	1485.2	1502.3	1539.3	1585.9	1653.0	1726.9	1818.7	1839.2
12.5°	1446.9	1453.0	1459.2	1472.2	1506.4	1561.2	1641.3	1732.4	1846.7	1867.3
15°	1496.2	1503.7	1498.9	1495.5	1513.3	1563.3	1646.8	1752.3	1881.7	1911.1
17.5°	1609.8	1612.6	1601.6	1569.4	1566.7	1593.4	1672.8	1779.6	1925.5	1957.7
20°	1793.3	1788.5	1765.9	1702.3	1666.0	1660.5	1717.3	1820.7	1970.7	2004.9
22.5°	2042.6	2037.1	1991.9	1891.3	1810.5	1757.0	1781.7	1874.1	2021.4	2059.7
25°	2353.5	2345.9	2279.5	2142.6	2017.2	1885.1	1869.3	1944.7	2083.7	2119.3
27.5°	2716.4	2710.2	2638.3	2457.5	2276.8	2060.4	1978.2	2027.5	2148.7	2189.1
30°	3106.7	3124.5	2997.1	2802.6	2573.9	2289.1	2124.8	2129.5	2232.9	2269.2
32.5°	3565.5	3596.3	3442.9	3196.4	2884.1	2537.7	2309.6	2272.0	2355.5	2385.6
35°	4020.1	4055.0	3927.7	3655.2	3295.7	2830.7	2502.7	2435.6	2518.5	2551.3
37.5°	4413.2	4459.7	4394.0	4157.1	3736.0	3184.0	2754.7	2628.0	2719.1	2760.2
40°	4723.3	4794.6	4789.8	4641.9	4255.0	3612.7	3074.5	2865.6	2968.4	3012.9
42.5°	4975.3	5037.0	5090.4	5082.8	4796.6	4099.5	3450.4	3174.5	3252.5	3303.9
45°	5149.3	5215.0	5330.0	5454.0	5317.7	4620.6	3881.1	3540.8	3612.0	3689.4
47.5°	5304.7	5379.3	5528.6	5725.1	5760.0	5143.8	4352.9	3967.4	4032.4	4112.6
50°	5318.4	5382.8	5614.2	5892.9	6074.3	5646.4	4859.6	4446.0	4507.0	4592.6
52.5°	4987.7	5089.0	5493.0	5888.1	6218.8	6066.8	5362.9	4943.8	5012.3	5115.0
55°	3871.5	4020.1	5137.6	5704.6	6167.5	6338.7	5841.5	5473.1	5560.8	5668.3
57.5°	3334.7	3399.7	4078.3	5370.4	5933.3	6409.2	6245.5	6007.9	6149.0	6266.8
60°	2997.1	3051.2	3452.5	4850.7	5625.2	6297.6	6557.8	6506.4	6750.2	6890.6
62.5°	2635.6	2686.9	3051.9	4050.2	5230.7	6112.0	6755.0	6966.6	7366.5	7519.8
65°	2276.8	2320.6	2670.5	3403.2	4729.5	5926.4	6857.0	7364.4	7936.8	8095.7
67.5°	1876.9	1913.2	2243.9	2871.1	4120.1	5672.4	6907.7	7677.3	8433.3	8569.5
70°	1354.4	1382.5	1724.2	2270.6	3355.2	5235.5	6887.1	7899.2	8690.7	8799.6
72.5°	640.2	665.6	1066.8	1474.2	2369.9	4385.1	6471.5	7723.2	8429.2	8375.1
75°	341.7	363.6	612.8	808.7	1251.7	3006.0	5295.8	6653.0	7078.2	6815.2
77.5°	231.4	248.6	379.3	485.5	571.8	1427.0	3403.9	4606.3	4431.6	3997.5
80°	183.5	201.3	310.9	328.7	276.6	515.6	1406.5	2132.3	1531.8	1225.0
82.5°	141.1	160.9	261.6	238.3	150.6	211.6	409.5	674.5	392.4	298.5
85°	86.3	107.5	205.4	152.0	84.9	96.5	139.0	187.6	119.8	100.0
87.5°	43.8	61.6	104.1	55.5	38.3	22.6	37.0	37.0	31.5	27.4
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°
1865.2	0°	1865.2	1865.2	1865.2	1865.2	1865.2	1865.2	1865.2	1865.2	1865.2	1865.2
1855.7	2.5°	1872.1	1885.8	1909.1	1931.0	1948.1	1964.5	1981.0	1989.9	1992.6	2003.6
1865.9	5°	1894.0	1919.3	1964.5	2007.0	2033.7	2050.1	2061.8	2068.6	2070.0	2073.4
1894.0	7.5°	1934.4	1974.8	2037.8	2080.2	2100.1	2098.7	2093.9	2076.8	2070.0	2063.8
1935.1	10°	1991.2	2044.6	2122.0	2151.5	2139.1	2106.3	2063.8	2013.8	1990.5	1967.9
1991.2	12.5°	2061.8	2129.5	2205.6	2204.2	2143.2	2059.0	1960.4	1883.7	1835.1	1800.2
2060.4	15°	2147.4	2225.4	2283.6	2237.1	2103.5	1952.2	1807.7	1707.7	1663.9	1625.6
2130.2	17.5°	2235.7	2319.2	2345.9	2226.8	2003.6	1794.0	1630.4	1551.6	1508.5	1487.9
2205.6	20°	2322.0	2404.8	2382.9	2167.9	1851.5	1614.6	1468.8	1425.6	1416.7	1421.5
2278.8	22.5°	2413.0	2487.0	2390.4	2054.2	1657.8	1431.1	1351.0	1352.4	1372.2	1386.6
2355.5	25°	2506.2	2556.1	2370.6	1889.9	1449.6	1296.2	1276.4	1298.3	1337.3	1365.4
2441.8	27.5°	2595.9	2617.8	2327.4	1686.5	1270.9	1199.7	1203.1	1248.3	1307.2	1346.2
2546.6	30°	2697.2	2672.5	2244.6	1457.8	1146.9	1116.8	1145.6	1198.3	1257.2	1292.1
2678.7	32.5°	2811.6	2719.8	2113.1	1246.2	1059.3	1050.4	1097.6	1131.9	1157.9	1168.2
2854.0	35°	2954.0	2786.2	1944.7	1097.6	980.6	1001.8	1047.0	1029.9	1019.6	1014.1
3089.6	37.5°	3138.9	2875.9	1747.5	1001.1	916.9	966.9	985.3	931.9	891.5	871.7
3375.1	40°	3361.4	3007.4	1557.8	926.5	876.5	936.7	904.5	840.2	788.8	760.7
3696.2	42.5°	3608.6	3145.0	1398.2	870.3	853.9	912.1	845.0	768.3	685.4	676.5
4079.0	45°	3868.1	3286.8	1289.4	827.2	842.9	890.8	810.7	686.8	627.9	664.2
4463.1	47.5°	4127.6	3416.9	1223.6	795.0	837.4	866.9	780.6	641.6	599.8	652.6
4874.7	50°	4416.6	3533.3	1194.2	771.7	831.3	857.3	735.4	630.0	570.4	605.3
5300.6	52.5°	4703.5	3623.7	1172.3	748.4	822.4	849.8	713.5	616.3	534.8	536.8
5729.2	55°	4989.7	3682.5	1148.3	717.6	802.5	833.3	711.4	601.2	508.1	498.5
6182.5	57.5°	5295.1	3716.1	1118.9	683.4	768.3	791.6	709.4	589.6	499.9	484.1
6646.1	60°	5606.0	3765.4	1080.5	641.6	722.4	741.6	704.6	585.5	495.1	468.4
7083.0	62.5°	5884.7	3782.5	1034.6	601.9	663.5	692.3	694.3	582.0	482.1	436.2
7445.9	65°	6067.5	3708.6	954.5	556.7	599.8	641.6	674.5	570.4	458.8	412.9
7625.3	67.5°	6060.0	3497.7	829.2	498.5	538.2	585.5	645.7	550.5	430.7	384.1
7489.7	70°	5777.9	3081.3	670.4	430.7	470.4	525.2	608.7	521.1	397.2	352.6
6659.8	72.5°	4955.5	2411.7	486.9	351.3	391.7	462.9	560.8	485.5	362.9	324.6
4921.9	75°	3540.1	1526.3	330.0	269.8	304.7	392.4	501.2	443.7	331.4	325.9
2465.1	77.5°	1808.4	729.3	218.4	197.2	212.3	309.5	421.1	396.5	336.2	269.1
701.2	80°	588.2	269.1	137.6	134.2	141.1	206.1	325.9	325.3	254.7	182.8
169.8	82.5°	187.6	115.7	89.7	86.3	82.9	129.4	227.3	257.5	171.9	115.7
60.9	85°	74.6	69.2	52.7	48.6	34.9	60.9	119.1	171.2	128.0	83.5
15.7	87.5°	27.4	27.4	14.4	10.3	7.5	20.5	32.2	51.4	73.3	43.1
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>
1865.2
2009.7
2078.9
2065.2
1961.1
1792.0
1621.5
1494.1
1419.5
1390.0
1372.9
1355.8
1300.3
1173.6
1019.6
876.5
762.8
685.4
683.4
677.2
631.3
551.2
505.3
486.2
470.4
436.2
412.9
386.2
356.8
322.5
307.4
239.7
161.6
115.0
85.6
42.5
0.0

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