

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: P940488

Luminaire Tested: **GALN-SB3C-827-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940488  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB3C-827-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

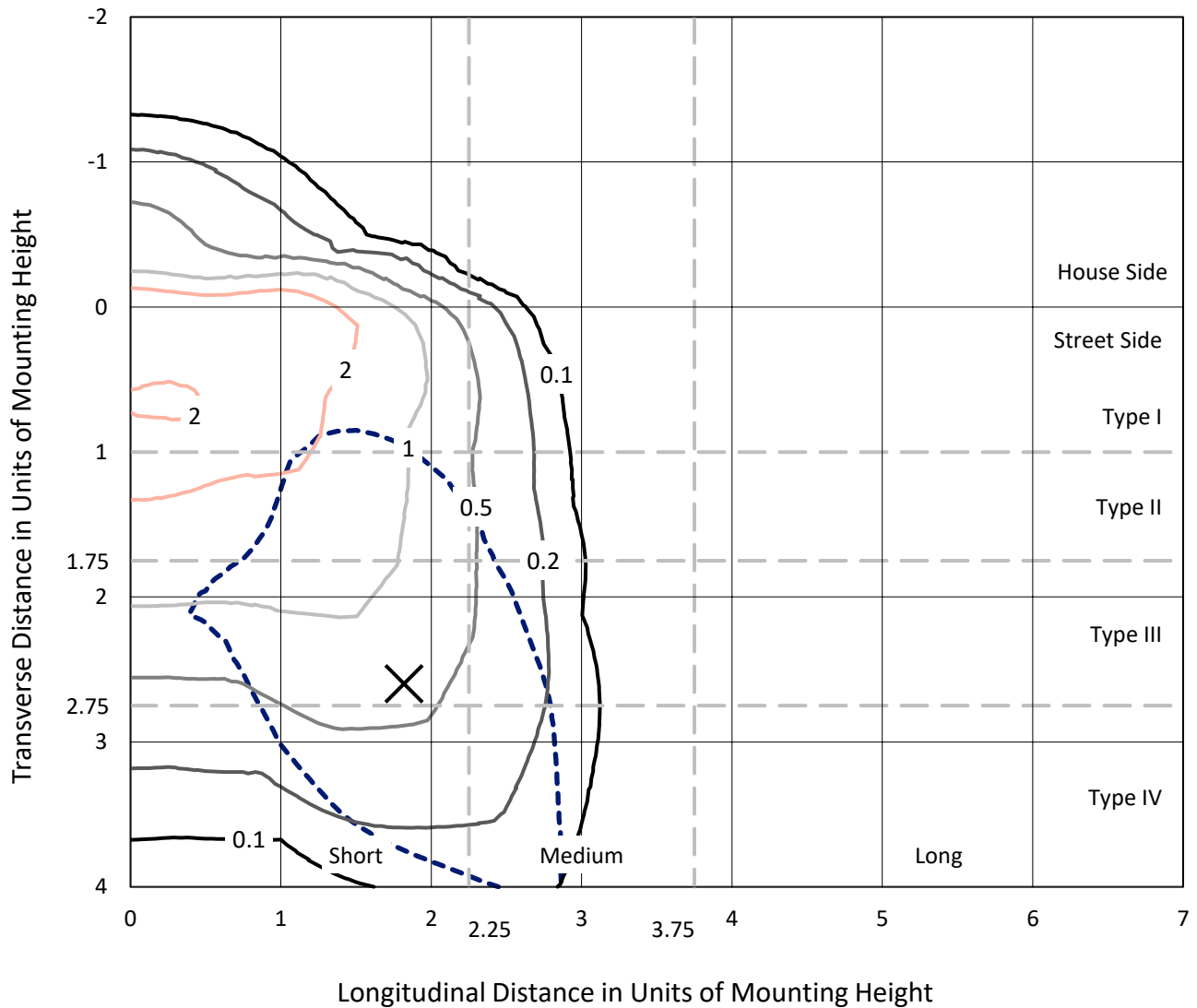
Lumens per Lamp: N/A  
Luminaire Lumens: 14794 lumens  
Efficiency: N/A  
Efficacy: 99.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 149.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

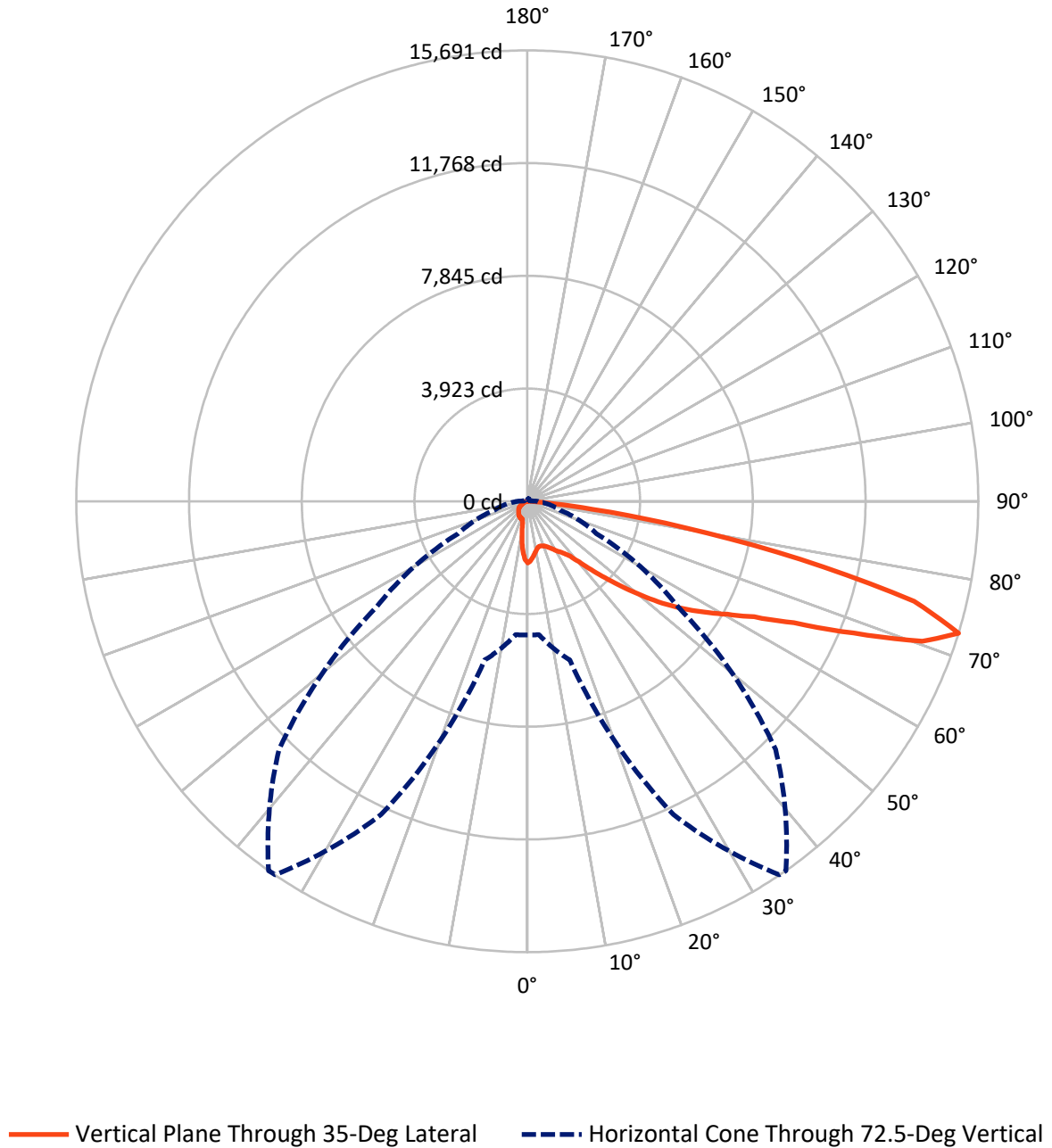
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc  
 Type IV - 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	1665.0	0.0	1665.0
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	13129.0	0.0	13129.0
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	14794.0	0.0	14794.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	176.2	1.2
10°-20°	412.2	2.8
20°-30°	669.6	4.5
30°-40°	1117.2	7.6
40°-50°	2113.7	14.3
50°-60°	3358.7	22.7
60°-70°	4155.0	28.1
70°-80°	2582.7	17.5
80°-90°	208.7	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°	14794.0	100.0
0°-180°	14794.0	100.0

**Coefficient of Utilization**



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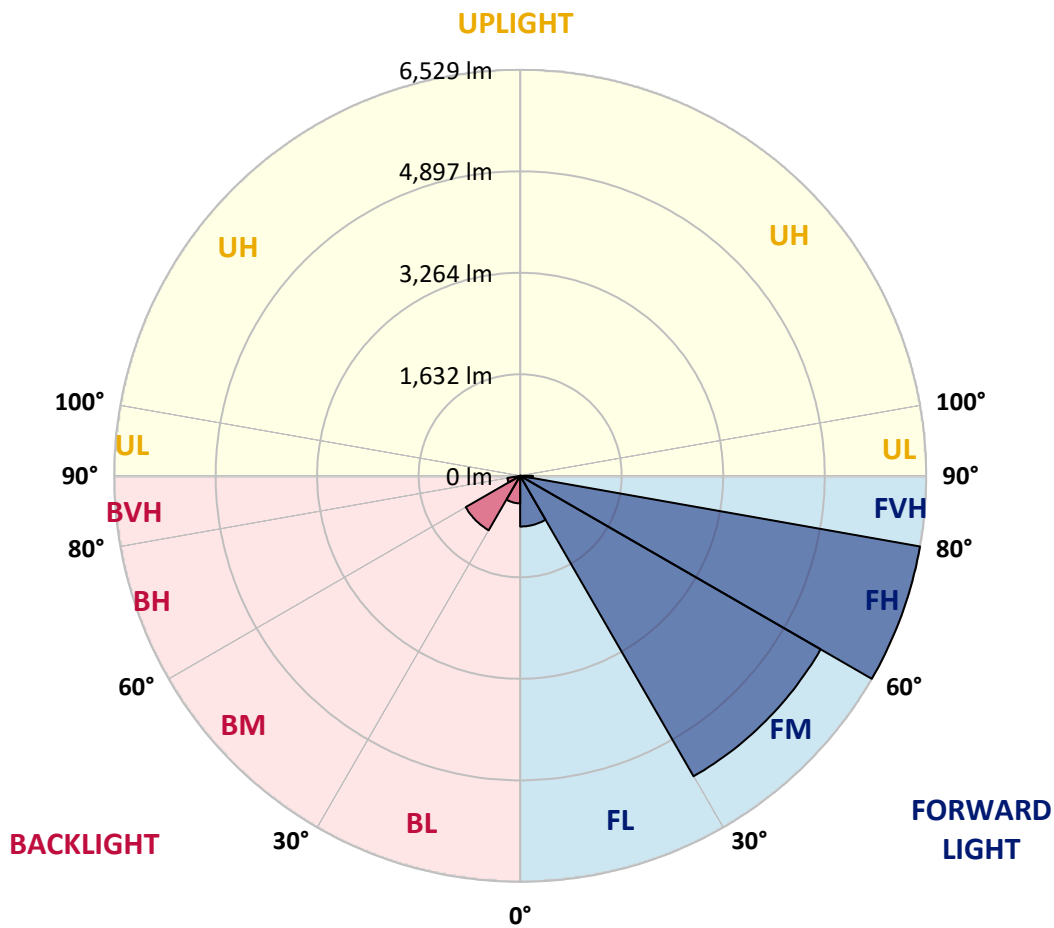
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	815.5	5.5			
FM (30°-60°)	5578.8	37.7			
FH (60°-80°)	6528.8	44.1			G3/7500
FVH (80°-90°)	205.9	1.4			G2/225
BL (0°-30°)	442.4	3.0	B1/500		
BM (30°-60°)	1010.8	6.8	B2/2500		
BH (60°-80°)	208.9	1.4	B1/500		G1/500
BVH (80°-90°)	2.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	2144.1	2144.1	2144.1	2144.1	2144.1	2144.1	2144.1	2144.1	2144.1	2144.1
2.5°	2048.8	2066.1	2069.4	2074.8	2074.8	2081.3	2092.1	2107.3	2132.2	2145.2
5°	1888.3	1901.3	1917.6	1930.6	1955.5	1958.8	2001.1	2042.3	2099.7	2143.1
7.5°	1726.8	1742.0	1763.7	1795.1	1827.6	1837.4	1901.3	1970.7	2061.8	2143.1
10°	1613.0	1614.1	1633.6	1665.0	1717.1	1729.0	1807.0	1905.7	2019.5	2130.1
12.5°	1549.0	1556.6	1565.3	1589.1	1639.0	1646.6	1730.1	1846.0	1977.2	2122.5
15°	1549.0	1554.5	1559.9	1571.8	1611.9	1618.4	1692.1	1808.1	1955.5	2125.7
17.5°	1565.3	1574.0	1569.6	1583.7	1626.0	1630.3	1695.4	1797.3	1954.4	2146.3
20°	1604.3	1610.8	1602.1	1610.8	1653.1	1661.8	1729.0	1817.9	1972.9	2182.1
22.5°	1666.1	1669.4	1648.8	1655.3	1698.6	1709.5	1787.5	1876.4	2017.3	2239.5
25°	1744.2	1750.7	1719.2	1726.8	1768.0	1781.0	1871.0	1964.2	2087.8	2318.7
27.5°	1834.1	1837.4	1810.3	1809.2	1862.3	1880.7	1971.8	2072.6	2182.1	2418.4
30°	1937.1	1946.9	1920.8	1916.5	1983.7	1998.9	2088.9	2205.9	2320.8	2568.0
32.5°	2018.4	2026.0	2010.8	2021.7	2089.9	2101.9	2230.9	2394.5	2538.7	2780.5
35°	2135.5	2139.8	2105.1	2124.6	2202.7	2233.0	2424.9	2659.0	2813.0	3047.1
37.5°	2559.3	2559.3	2411.9	2315.4	2390.2	2417.3	2690.5	2991.8	3151.2	3404.8
40°	3145.8	3136.0	2920.3	2723.0	2713.2	2766.4	3068.8	3411.3	3588.0	3834.1
42.5°	3771.2	3756.1	3462.3	3267.2	3234.6	3253.1	3505.6	3928.4	4108.3	4357.7
45°	4326.2	4321.9	4053.1	3790.7	3732.2	3790.7	4050.9	4533.3	4662.3	4924.6
47.5°	4791.3	4791.3	4595.1	4423.8	4393.4	4428.1	4789.1	5204.3	5192.3	5528.4
50°	5326.8	5322.4	5136.0	5062.3	5093.7	5142.5	5639.0	5911.0	5740.8	6121.3
52.5°	5701.8	5727.8	5663.9	5652.0	5812.4	5896.9	6501.8	6602.6	6231.9	6683.9
55°	5998.8	6029.2	6102.9	6186.4	6495.3	6605.9	7337.6	7258.4	6642.7	7171.7
57.5°	6419.4	6376.1	6489.9	6654.7	7154.4	7287.7	8147.3	7877.4	6973.4	7567.4
60°	6930.0	6936.5	6956.0	7164.1	7812.4	7983.6	8945.1	8462.8	7185.8	7810.2
62.5°	7543.5	7553.3	7593.4	7913.2	8695.8	8857.3	9795.0	8941.9	7283.4	7741.9
65°	7501.3	7542.5	7990.1	9083.9	10038.9	10198.2	10786.9	9277.9	7136.0	7117.5
67.5°	6833.5	6900.7	7649.8	10482.3	12063.8	12241.6	11985.8	9344.1	6499.6	5534.9
70°	5957.6	5981.5	6882.3	11739.7	14408.5	14588.4	13058.9	8616.7	4932.2	3087.2
72.5°	4652.5	4657.9	5714.8	12031.3	15681.1	15690.9	12216.6	6396.7	2652.5	1185.9
75°	3323.5	3291.0	3827.6	9757.1	13796.0	13906.6	9158.7	3000.5	1013.5	560.4
77.5°	1782.1	1817.9	2165.8	5786.4	9530.5	9719.1	4997.2	865.0	516.0	381.6
80°	550.7	581.0	887.8	2649.3	5398.3	5512.1	1852.6	384.8	359.9	272.1
82.5°	173.4	179.9	414.1	1113.3	2240.6	2292.7	536.6	217.9	246.1	179.9
85°	49.9	50.9	184.3	415.2	553.9	564.8	150.7	84.6	140.9	111.7
87.5°	5.4	17.3	69.4	69.4	48.8	47.7	16.3	18.4	40.1	14.1
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°
2144.1	0°	2144.1	2144.1	2144.1	2144.1	2144.1	2144.1	2144.1	2144.1	2144.1	2144.1
2153.9	2.5°	2148.5	2149.6	2135.5	2111.6	2085.6	2063.9	2036.8	2015.2	2000.0	1995.6
2173.4	5°	2163.7	2156.1	2116.0	2043.3	1956.6	1881.8	1798.4	1732.2	1688.9	1670.4
2194.0	7.5°	2186.4	2164.7	2076.9	1933.9	1768.0	1620.6	1471.0	1355.0	1281.3	1244.4
2213.5	10°	2205.9	2162.6	2011.9	1775.6	1521.9	1298.6	1097.0	957.2	879.1	842.3
2236.3	12.5°	2224.4	2161.5	1927.3	1588.1	1244.4	971.3	783.7	714.4	692.7	685.1
2273.1	15°	2259.1	2164.7	1821.1	1373.4	968.0	733.9	665.6	664.5	668.8	666.7
2329.5	17.5°	2306.7	2168.0	1700.8	1145.8	746.9	647.1	643.9	653.7	660.2	656.9
2400.0	20°	2368.5	2181.0	1572.9	920.3	641.7	625.5	633.1	641.7	647.1	641.7
2494.3	22.5°	2455.3	2203.8	1433.0	739.3	608.1	612.5	619.0	628.7	634.1	626.6
2614.6	25°	2561.5	2239.5	1295.4	642.8	591.9	597.3	607.0	617.9	624.4	616.8
2766.4	27.5°	2699.2	2297.0	1168.5	621.1	575.6	578.9	592.9	609.2	617.9	608.1
2982.1	30°	2898.6	2391.3	1059.1	630.9	565.8	558.3	577.8	600.5	610.3	601.6
3275.8	32.5°	3163.1	2524.6	991.9	646.1	561.5	534.4	552.8	582.1	598.4	592.9
3659.6	35°	3510.0	2727.3	965.8	663.4	558.3	509.5	522.5	553.9	582.1	587.5
4143.0	37.5°	3930.6	3009.2	973.4	671.0	548.5	488.9	495.4	522.5	559.3	576.7
4687.2	40°	4408.6	3337.6	1016.8	663.4	537.7	471.5	472.6	493.2	525.7	551.8
5272.6	42.5°	4901.8	3721.4	1097.0	635.2	527.9	456.4	453.1	467.2	488.9	507.3
5856.8	45°	5371.2	4115.9	1176.1	596.2	516.0	441.2	433.6	439.0	443.4	450.9
6425.9	47.5°	5781.0	4393.4	1153.4	560.4	499.7	423.8	410.8	408.7	395.7	394.6
6934.3	50°	6063.9	4454.1	1024.4	524.7	475.9	404.3	383.7	370.7	348.0	337.1
7314.8	52.5°	6153.9	4214.6	836.8	488.9	436.9	378.3	349.0	328.5	300.3	290.5
7533.8	55°	6034.6	3745.2	668.8	445.5	382.7	343.6	311.1	284.0	261.2	249.3
7557.6	57.5°	5743.0	3147.9	529.0	394.6	325.2	304.6	272.1	245.0	225.5	213.5
7293.1	60°	5259.6	2499.7	418.4	333.9	277.5	262.3	228.7	211.4	194.0	179.9
6610.2	62.5°	4525.7	1784.3	328.5	264.5	232.0	214.6	195.1	182.1	161.5	142.0
5382.0	65°	3531.7	1091.6	253.7	194.0	186.4	177.8	165.9	153.9	129.0	109.5
3511.1	67.5°	2227.6	517.1	181.0	146.3	147.4	143.1	137.7	127.9	109.5	92.1
1572.9	70°	981.0	250.4	119.2	111.7	109.5	109.5	113.8	110.6	93.2	77.0
546.3	72.5°	333.9	134.4	88.9	84.6	79.1	78.0	95.4	92.1	74.8	59.6
272.1	75°	174.5	90.0	65.0	60.7	47.7	57.5	75.9	71.5	53.1	39.0
179.9	77.5°	113.8	64.0	44.4	39.0	27.1	37.9	56.4	49.9	31.4	19.5
118.2	80°	71.5	42.3	26.0	18.4	13.0	20.6	30.4	21.7	11.9	4.3
69.4	82.5°	37.9	21.7	9.8	6.5	5.4	6.5	7.6	5.4	2.2	0.0
35.8	85°	15.2	7.6	3.3	2.2	1.1	0.0	2.2	1.1	0.0	0.0
6.5	87.5°	5.4	1.1	0.0	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>
2144.1
2003.2
1676.9
1249.8
843.3
682.9
665.6
655.8
640.6
625.5
615.7
608.1
600.5
592.9
587.5
581.0
560.4
514.9
455.3
393.5
338.2
289.4
249.3
211.4
176.7
138.8
106.2
90.0
73.7
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