

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: P947052

Luminaire Tested: **GALN-SB2C-735-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947052
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2C-735-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12469 lumens
Efficiency: N/A
Efficacy: 123.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

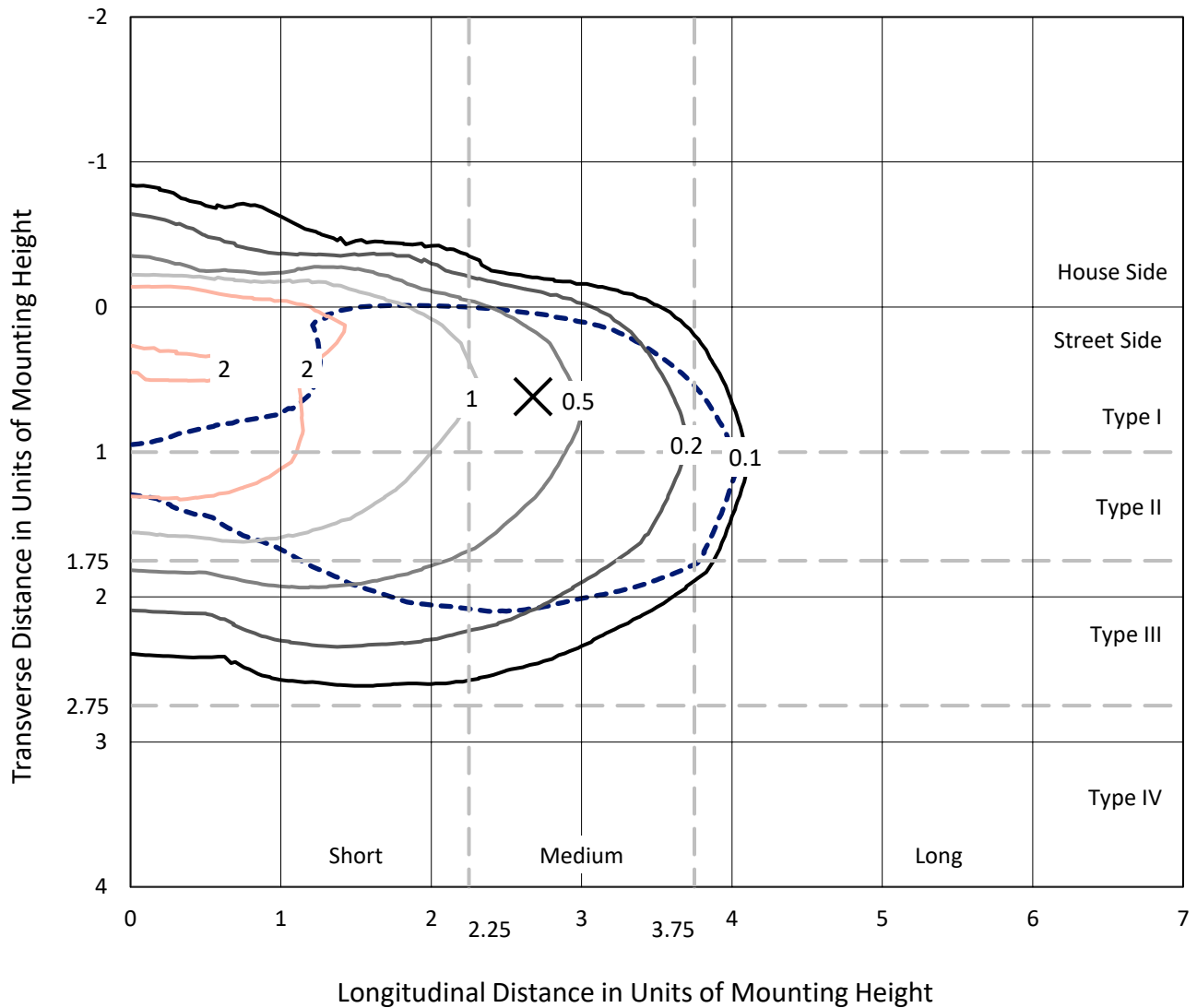
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

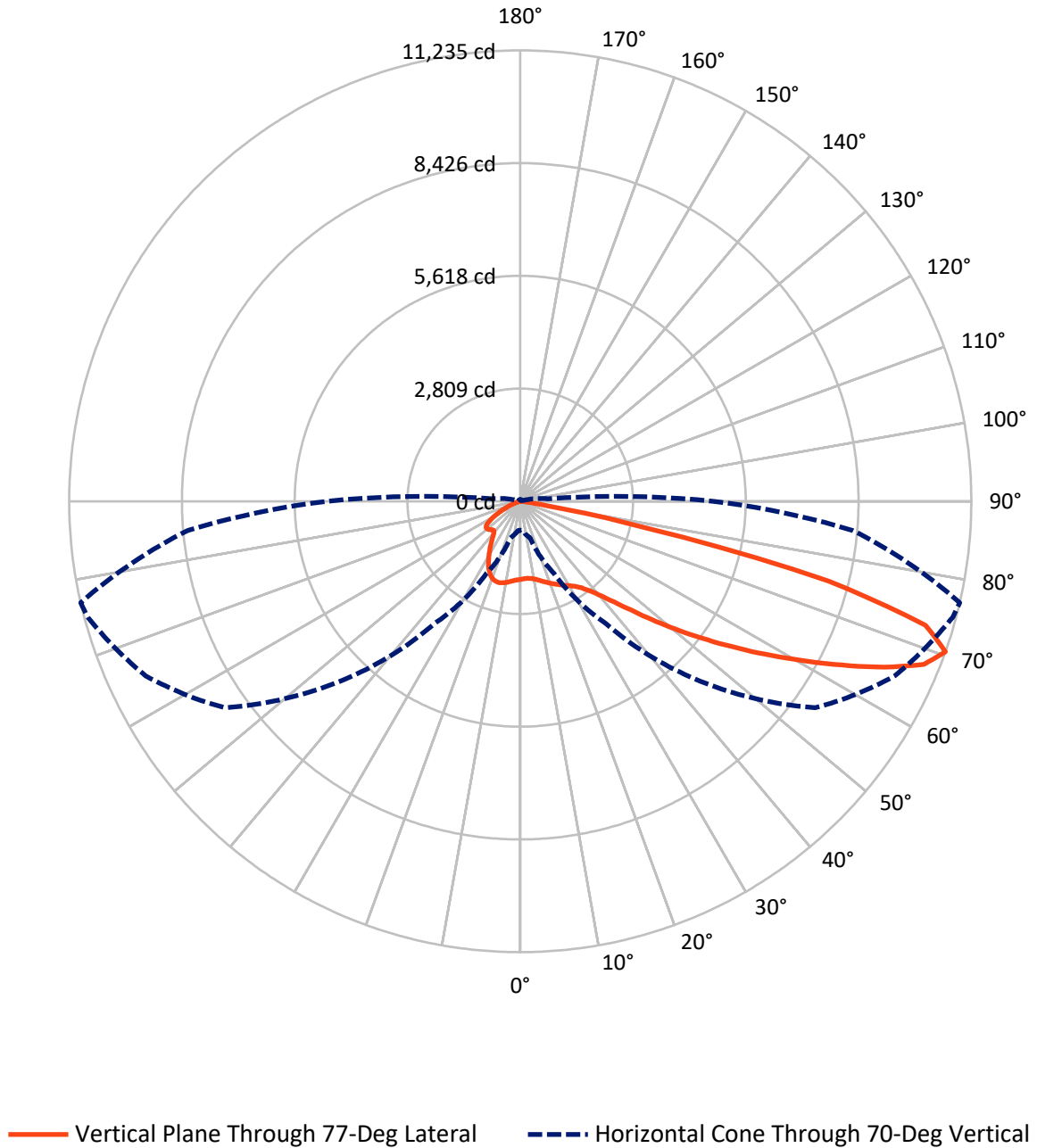
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1314.4	0.0	1314.4
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	11154.6	0.0	11154.6
	% Fixture	89.5	0.0	89.5
Total	Lumens	12469.0	0.0	12469.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.6	1.3
10°-20°	397.9	3.2
20°-30°	615.5	4.9
30°-40°	1116.8	9.0
40°-50°	2108.1	16.9
50°-60°	3046.0	24.4
60°-70°	3242.4	26.0
70°-80°	1718.2	13.8
80°-90°	56.4	0.5
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°	12469.0	100.0
0°-180°	12469.0	100.0

Coefficient of Utilization



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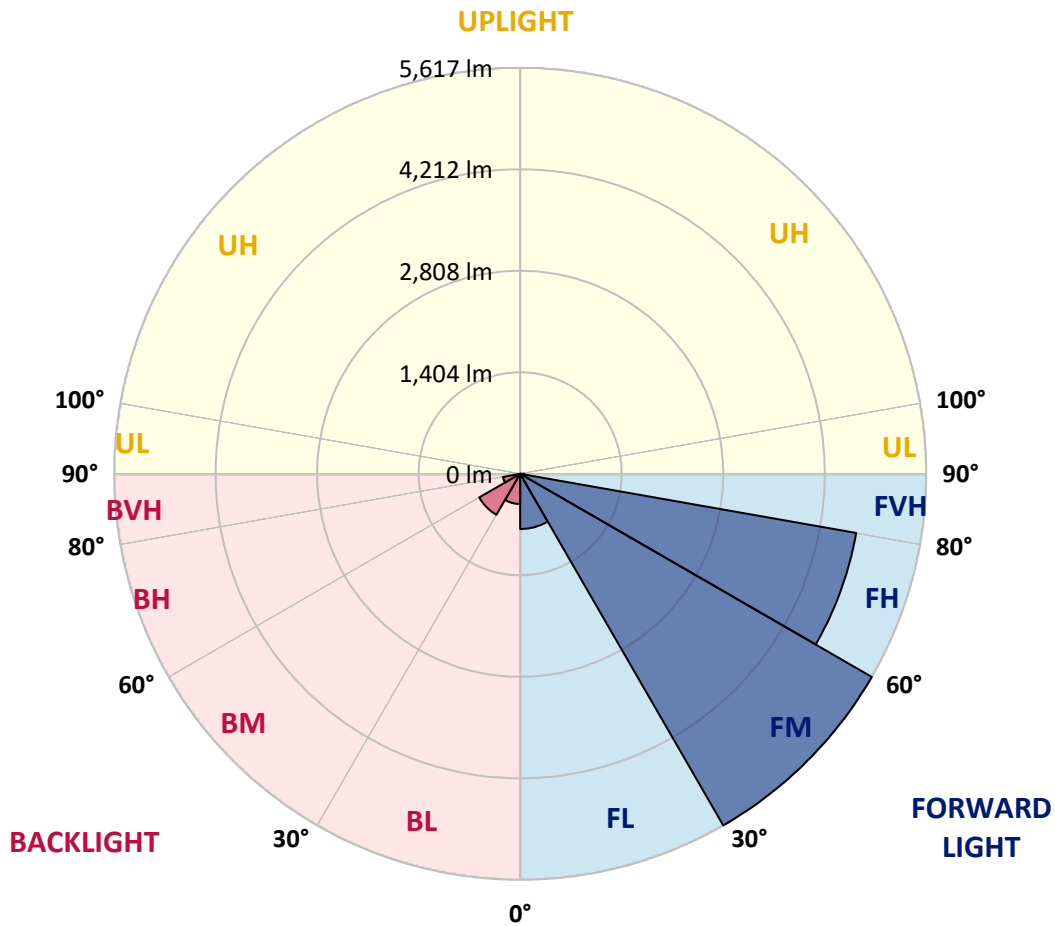
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	763.4	6.1			
FM (30°-60°)	5616.6	45.0			
FH (60°-80°)	4719.7	37.9			G2/5000
FVH (80°-90°)	54.9	0.4			G1/100
BL (0°-30°)	417.6	3.3	B1/500		
BM (30°-60°)	654.3	5.2	B1/1000		
BH (60°-80°)	241.0	1.9	B1/500		G1/500
BVH (80°-90°)	1.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1944.9	1944.9	1944.9	1944.9	1944.9	1944.9	1944.9	1944.9	1944.9	1944.9
2.5°	1826.0	1842.6	1840.2	1851.2	1855.2	1870.9	1886.7	1907.9	1931.6	1930.8
5°	1722.9	1739.4	1743.4	1758.3	1777.2	1801.6	1833.9	1876.4	1920.5	1927.6
7.5°	1600.8	1618.2	1628.4	1658.3	1693.0	1743.4	1796.1	1858.3	1931.6	1941.8
10°	1478.8	1494.5	1507.9	1550.4	1605.6	1680.4	1766.2	1856.0	1954.4	1969.3
12.5°	1403.2	1418.2	1433.1	1470.1	1538.6	1630.0	1746.5	1867.0	1992.2	2013.4
15°	1376.4	1389.8	1401.6	1434.7	1498.5	1602.4	1742.6	1889.8	2040.2	2068.6
17.5°	1380.4	1387.4	1395.3	1420.5	1482.7	1589.8	1749.7	1929.2	2096.9	2122.1
20°	1403.2	1407.1	1407.9	1425.2	1480.4	1588.2	1763.8	1967.0	2150.5	2184.3
22.5°	1432.3	1433.9	1432.3	1444.1	1495.3	1600.0	1782.7	2012.7	2210.3	2241.8
25°	1568.5	1538.6	1500.8	1478.0	1520.5	1622.9	1811.1	2074.1	2275.7	2306.4
27.5°	1991.4	1905.6	1770.1	1618.2	1572.5	1656.0	1850.4	2136.3	2341.8	2369.4
30°	2678.0	2565.4	2335.5	1993.0	1739.4	1725.2	1901.6	2198.5	2411.9	2441.8
32.5°	3366.2	3338.7	3073.3	2599.3	2115.0	1879.6	1986.7	2282.7	2504.8	2528.4
35°	4062.3	4006.4	3789.1	3320.6	2693.8	2193.8	2128.4	2393.0	2626.8	2653.6
37.5°	4595.4	4561.6	4426.9	4041.1	3380.4	2678.8	2370.9	2563.9	2804.0	2833.9
40°	5066.3	5050.5	5004.9	4750.5	4148.2	3313.5	2748.1	2828.4	3049.7	3085.1
42.5°	5436.4	5473.4	5499.4	5428.5	4939.5	4037.9	3255.2	3200.1	3392.2	3428.4
45°	5815.1	5827.7	5932.5	6034.8	5725.4	4795.4	3826.9	3635.5	3818.2	3863.1
47.5°	6058.4	6108.8	6293.1	6473.4	6386.0	5546.6	4441.1	4149.7	4311.9	4396.2
50°	6076.6	6171.8	6425.4	6739.6	6867.1	6261.6	5108.8	4735.6	4908.0	5000.9
52.5°	5775.0	5923.0	6315.9	6775.8	7127.0	6867.1	5799.4	5321.4	5542.7	5663.9
55°	4427.7	4621.4	5904.1	6578.9	7137.2	7326.2	6471.8	5931.7	6249.8	6386.8
57.5°	3857.6	3955.2	4641.9	6237.2	6947.4	7511.2	7079.7	6512.8	7019.1	7189.2
60°	3209.5	3337.9	3893.0	5678.1	6690.0	7529.4	7616.8	7262.4	7853.0	8044.3
62.5°	2181.2	2320.5	2872.5	4717.5	6338.0	7520.7	8056.9	8034.1	8779.8	8985.3
65°	1351.2	1438.6	1802.4	3852.1	5845.8	7530.1	8517.6	8971.1	9757.8	9966.4
67.5°	1067.7	1107.9	1297.7	2957.6	4997.8	7317.5	8977.4	9852.3	10678.3	10843.6
70°	717.3	741.8	944.1	1982.7	3718.2	6336.4	8968.8	10294.8	11152.3	11235.0
72.5°	378.0	396.9	552.0	918.1	2245.7	4504.1	7560.1	9765.6	10680.6	10556.2
75°	189.0	220.5	371.7	466.2	959.1	2511.9	4694.6	7699.4	8406.5	7924.6
77.5°	143.3	173.2	307.1	307.1	333.9	845.7	1988.2	4199.3	3873.3	3225.3
80°	91.3	118.1	268.5	232.3	139.4	215.0	518.1	1176.4	822.9	626.0
82.5°	53.5	77.2	223.6	153.5	78.0	79.5	146.5	250.4	213.4	166.1
85°	21.3	50.4	153.5	60.6	30.7	19.7	44.1	53.5	44.1	33.1
87.5°	0.0	11.8	26.8	0.0	2.4	1.6	3.1	3.9	3.9	3.1
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°
1944.9	0°	1944.9	1944.9	1944.9	1944.9	1944.9	1944.9	1944.9	1944.9	1944.9	1944.9
1946.5	2.5°	1953.6	1955.2	1959.9	1960.7	1949.7	1935.5	1930.0	1927.6	1918.2	1917.4
1959.1	5°	1977.2	1984.3	1977.2	1956.8	1907.9	1839.4	1787.5	1744.9	1706.3	1694.5
2002.4	7.5°	2024.5	2031.6	2010.3	1930.0	1807.1	1670.9	1548.1	1461.5	1383.5	1354.4
2055.2	10°	2092.2	2101.6	2034.7	1872.5	1655.2	1436.3	1228.4	1081.9	967.7	921.3
2126.8	12.5°	2177.2	2181.2	2048.1	1785.1	1457.5	1144.9	850.4	693.7	592.1	554.3
2213.5	15°	2270.9	2265.4	2049.7	1666.2	1188.2	809.5	555.1	455.9	415.0	402.4
2300.1	17.5°	2369.4	2346.5	2018.2	1494.5	892.9	553.6	411.8	388.2	381.1	378.0
2385.9	20°	2466.2	2415.0	1960.7	1270.1	641.0	413.4	374.0	366.9	363.0	361.4
2472.5	22.5°	2554.4	2467.0	1862.3	1009.5	465.4	365.4	353.6	347.3	340.2	337.0
2556.8	25°	2640.2	2496.9	1723.7	766.2	372.5	341.7	332.3	320.5	311.0	307.1
2647.3	27.5°	2723.7	2515.8	1550.4	566.9	332.3	319.7	302.4	285.8	278.7	277.2
2744.2	30°	2812.7	2522.1	1353.6	422.8	307.9	292.1	266.9	248.0	244.1	244.9
2874.9	32.5°	2921.3	2531.6	1155.2	346.5	287.4	259.1	229.1	209.5	206.3	209.5
3065.4	35°	3051.3	2550.5	963.8	318.9	269.3	225.2	192.9	176.4	173.2	175.6
3309.5	37.5°	3227.7	2581.2	785.1	313.4	254.3	196.9	162.2	148.8	148.8	149.6
3608.8	40°	3462.3	2663.1	625.2	309.5	246.5	175.6	137.0	131.5	133.9	135.4
3989.9	42.5°	3748.1	2837.1	517.3	304.7	237.8	166.1	124.4	122.1	126.0	127.6
4446.6	45°	4068.6	3057.6	479.5	296.9	229.9	172.4	118.9	115.8	120.5	121.3
4958.4	47.5°	4400.1	3273.3	474.8	288.2	222.1	181.9	117.3	110.2	115.8	116.5
5504.9	50°	4735.6	3414.3	479.5	274.8	209.5	181.9	118.1	104.7	109.5	111.8
6071.8	52.5°	5073.4	3478.8	476.4	245.7	187.4	170.9	118.1	100.0	104.7	106.3
6684.4	55°	5400.9	3466.2	428.4	202.4	159.1	151.2	115.0	96.1	99.2	100.0
7263.2	57.5°	5660.0	3290.6	339.4	157.5	129.1	126.0	104.7	91.3	93.7	92.9
7793.9	60°	5795.4	2904.8	242.5	121.3	101.6	99.2	92.1	85.0	86.6	82.7
8243.5	62.5°	5797.0	2394.6	162.2	96.1	81.1	78.7	78.7	76.4	74.8	66.9
8591.6	65°	5673.4	1828.4	107.9	76.4	65.4	61.4	66.1	65.4	59.8	48.8
8697.9	67.5°	5393.1	1198.5	81.9	59.8	50.4	48.0	52.8	55.1	51.2	40.9
8310.5	70°	4816.7	697.7	67.7	46.5	37.8	35.4	42.5	47.2	42.5	33.1
7103.4	72.5°	4000.9	376.4	55.1	34.6	26.0	23.6	33.9	38.6	33.9	24.4
4557.6	75°	2596.1	201.6	42.5	22.8	13.4	15.0	25.2	28.3	23.6	15.7
1337.8	77.5°	871.7	89.0	26.8	11.0	6.3	6.3	15.0	17.3	11.0	5.5
243.3	80°	194.5	37.0	11.0	4.7	2.4	2.4	3.1	3.1	1.6	0.0
74.8	82.5°	63.8	15.0	4.7	1.6	0.0	0.0	0.0	0.0	0.0	0.0
18.9	85°	24.4	5.5	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.3	87.5°	9.4	0.8	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

180°
1944.9
1919.0
1687.5
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