

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: P939977

Luminaire Tested: **GALN-SB2D-827-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939977
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2D-827-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17708 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

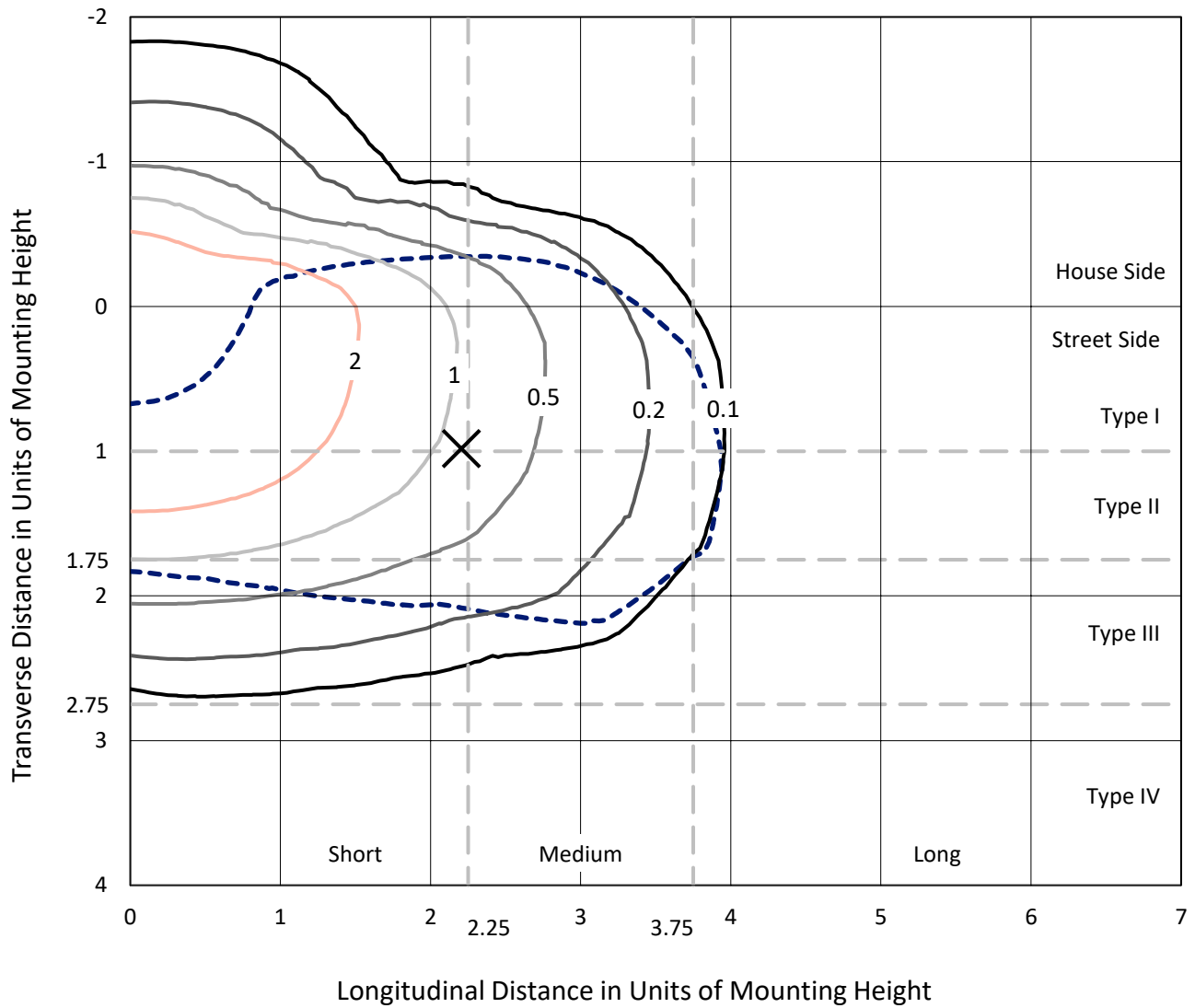
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

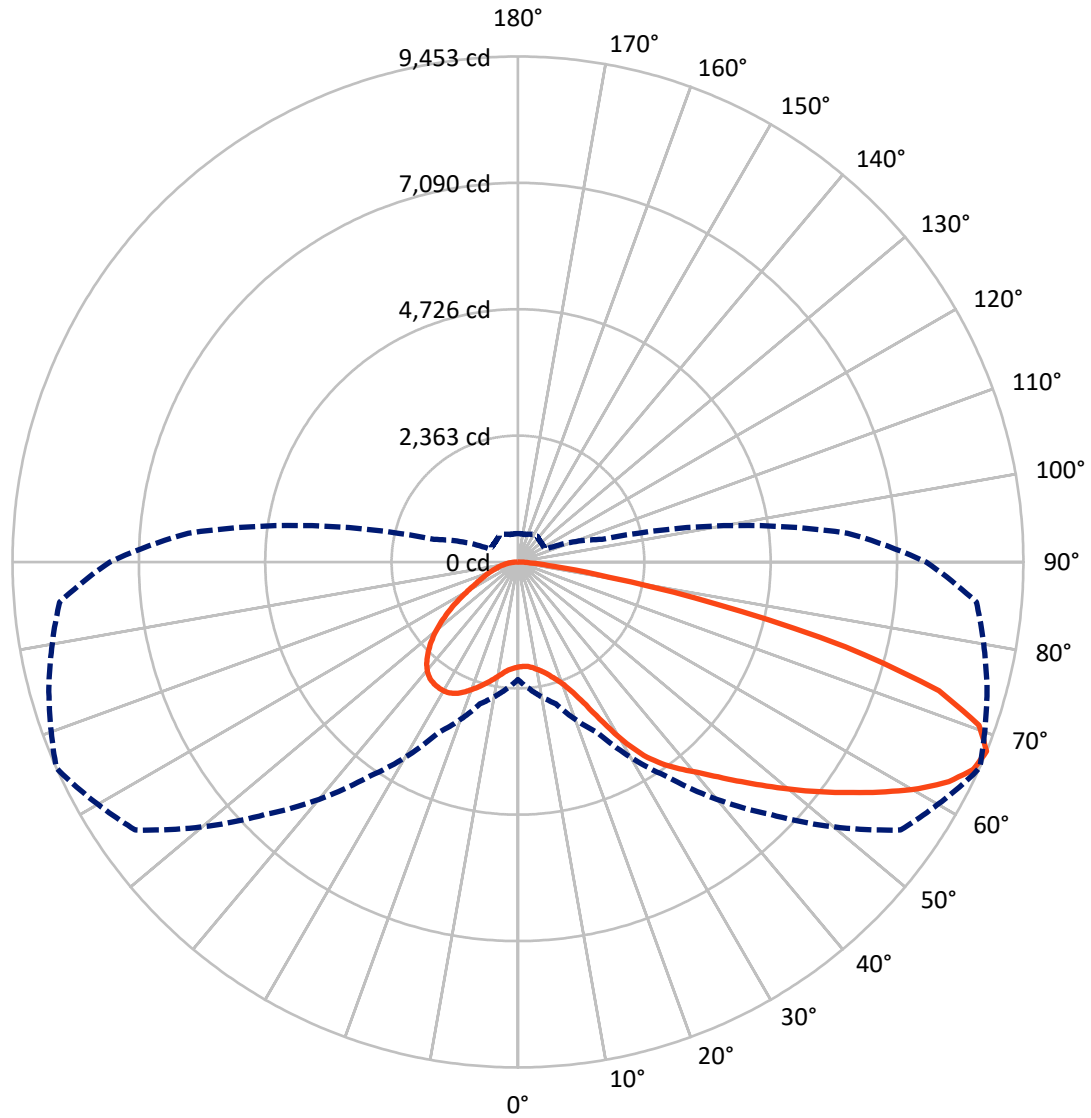
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4403.0	0.0	4403.0
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	13305.0	0.0	13305.0
	% Fixture	75.1	0.0	75.1
Total	Lumens	17708.0	0.0	17708.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.7	1.1
10°-20°	643.4	3.6
20°-30°	1240.0	7.0
30°-40°	2174.2	12.3
40°-50°	3232.4	18.3
50°-60°	4097.3	23.1
60°-70°	4009.1	22.6
70°-80°	1912.4	10.8
80°-90°	204.4	1.2
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°	17708.0	100.0
0°-180°	17708.0	100.0

Coefficient of Utilization



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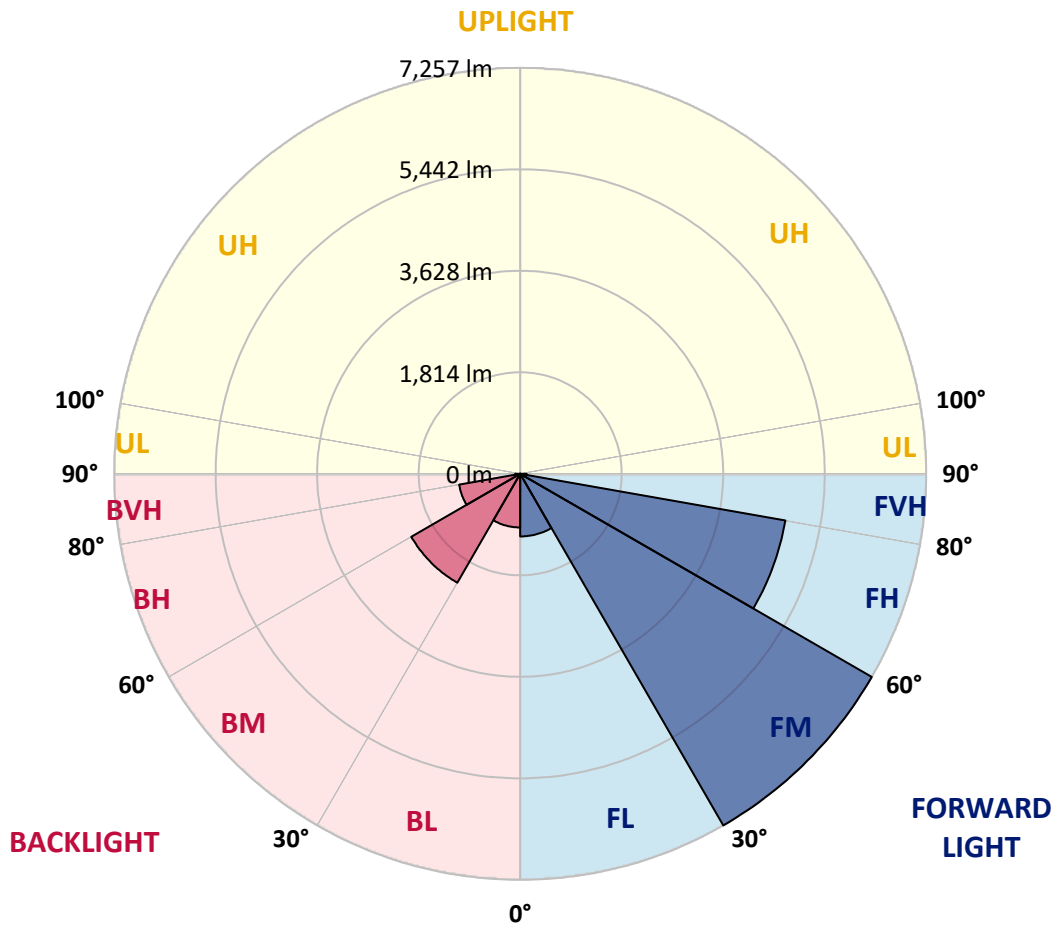
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1119.0	6.3			
FM (30°-60°)	7256.6	41.0			
FH (60°-80°)	4813.5	27.2			G2/5000
FVH (80°-90°)	115.9	0.7			G2/225
BL (0°-30°)	959.1	5.4	B2/1000		
BM (30°-60°)	2247.4	12.7	B2/2500		
BH (60°-80°)	1108.0	6.3	B3/2500		G3/2500
BVH (80°-90°)	88.5	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	1964.1	1964.1	1964.1	1964.1	1964.1	1964.1	1964.1	1964.1	1964.1	1964.1
2.5°	1943.6	1954.7	1952.0	1947.3	1946.4	1948.2	1951.0	1953.8	1952.9	1957.5
5°	1938.0	1949.2	1948.2	1948.2	1952.0	1959.4	1964.1	1968.7	1964.1	1969.6
7.5°	1941.7	1950.1	1953.8	1957.5	1966.8	1980.8	1992.0	2002.2	1996.6	2003.1
10°	1989.2	1995.7	1999.4	1999.4	2005.9	2021.7	2032.9	2051.5	2046.9	2057.1
12.5°	2075.7	2082.2	2082.2	2078.5	2083.1	2093.4	2097.1	2117.6	2109.2	2125.9
15°	2181.8	2194.8	2184.6	2178.0	2179.9	2190.1	2189.2	2205.0	2196.6	2210.6
17.5°	2299.0	2315.7	2299.0	2298.1	2294.3	2305.5	2306.4	2320.4	2305.5	2315.7
20°	2437.6	2460.9	2446.9	2451.6	2443.2	2447.9	2452.5	2473.0	2449.7	2457.2
22.5°	2633.0	2660.9	2646.0	2663.7	2658.1	2654.4	2653.5	2689.8	2653.5	2656.3
25°	2917.7	2951.2	2925.1	2949.3	2949.3	2961.4	2975.4	3021.9	2961.4	2943.8
27.5°	3338.2	3371.7	3320.6	3335.4	3330.8	3360.6	3345.7	3461.0	3395.9	3367.1
30°	3844.4	3903.9	3807.2	3803.4	3798.8	3846.2	3867.6	3943.9	3877.9	3849.0
32.5°	4391.4	4453.8	4338.4	4304.9	4287.2	4316.1	4298.4	4359.8	4314.2	4269.6
35°	4970.1	5031.5	4921.8	4856.6	4785.9	4725.4	4662.2	4678.0	4635.2	4567.3
37.5°	5517.2	5629.8	5513.5	5443.7	5313.5	5195.3	5018.5	4945.0	4905.0	4842.7
40°	6074.5	6138.7	6050.3	5990.8	5849.4	5664.2	5381.4	5226.0	5172.0	5111.6
42.5°	6484.8	6546.2	6498.8	6457.8	6347.1	6132.2	5766.6	5572.1	5493.9	5426.0
45°	6810.4	6856.0	6826.3	6841.2	6793.7	6585.3	6165.7	5943.3	5862.4	5779.6
47.5°	6941.6	6990.0	7037.5	7125.8	7206.8	7053.3	6594.6	6345.3	6259.7	6175.0
50°	6926.7	6976.1	7113.8	7301.7	7552.9	7501.7	7046.8	6773.2	6694.1	6597.4
52.5°	6807.7	6863.5	7040.3	7352.9	7752.9	7837.6	7507.3	7215.2	7140.7	7025.4
55°	6495.0	6528.5	6793.7	7236.6	7800.4	8072.1	7958.5	7685.9	7611.5	7450.6
57.5°	5915.4	5963.8	6349.9	6923.0	7681.3	8231.2	8354.9	8180.9	8109.3	7877.6
60°	5159.0	5236.2	5678.2	6396.4	7378.0	8230.2	8715.0	8667.5	8608.0	8298.1
62.5°	4303.0	4392.4	4817.6	5652.1	6847.7	7996.7	8940.1	9075.0	9044.3	8686.1
65°	3304.7	3366.1	3789.5	4689.2	6022.4	7495.2	8966.2	9353.2	9358.8	8981.0
67.5°	2200.4	2377.1	2744.6	3518.7	4917.1	6675.5	8737.3	9398.8	9452.8	9082.5
70°	1073.7	1306.3	1666.3	2286.9	3518.7	5418.6	8139.0	9024.8	9144.8	8786.6
72.5°	445.7	521.0	717.3	1128.6	2019.9	3656.4	6937.0	8010.6	8233.0	7785.5
75°	300.5	325.6	410.3	578.7	920.2	1803.1	5002.7	5973.1	6331.3	5880.1
77.5°	231.7	247.5	298.7	404.7	547.1	682.0	2677.7	3599.7	3784.8	3503.8
80°	182.4	194.5	223.3	294.9	388.0	364.7	912.7	1631.0	1738.0	1457.9
82.5°	158.2	162.8	160.0	200.0	257.7	213.1	299.6	602.0	664.3	481.9
85°	114.4	127.5	133.0	123.7	136.8	107.9	122.8	213.1	234.5	209.3
87.5°	46.5	68.8	84.7	80.0	50.2	30.7	38.1	62.3	71.6	78.2
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°
1964.1	0°	1964.1	1964.1	1964.1	1964.1	1964.1	1964.1	1964.1	1964.1	1964.1	1964.1
1965.0	2.5°	1965.9	1972.4	1977.1	1982.7	1986.4	1992.0	2003.1	2009.6	2010.6	2015.2
1979.9	5°	1983.6	1992.9	2003.1	2018.0	2034.8	2048.7	2070.1	2085.0	2090.6	2095.2
2016.2	7.5°	2021.7	2034.8	2053.4	2079.4	2103.6	2122.2	2148.3	2165.9	2183.6	2190.1
2073.8	10°	2078.5	2097.1	2124.1	2159.4	2185.5	2209.7	2236.7	2251.5	2269.2	2276.7
2142.7	12.5°	2149.2	2168.7	2204.1	2253.4	2277.6	2294.3	2303.6	2299.9	2303.6	2310.2
2225.5	15°	2230.1	2251.5	2291.5	2344.6	2361.3	2346.4	2326.0	2307.4	2304.6	2306.4
2326.0	17.5°	2326.0	2341.8	2388.3	2433.0	2420.9	2359.5	2314.8	2285.0	2270.1	2265.5
2454.4	20°	2459.9	2459.9	2498.1	2526.0	2445.1	2340.9	2271.1	2222.7	2192.0	2179.0
2629.3	22.5°	2622.8	2607.9	2632.1	2612.5	2440.4	2288.8	2192.0	2108.3	2061.7	2043.1
2874.0	25°	2829.3	2811.6	2805.1	2684.2	2406.9	2206.0	2048.7	1947.3	1906.4	1896.1
3226.6	27.5°	3141.0	3096.3	3011.7	2723.2	2345.5	2075.7	1881.2	1787.3	1764.0	1764.9
3679.7	30°	3555.9	3466.6	3259.2	2729.8	2245.0	1891.5	1710.1	1643.1	1631.9	1636.6
4060.2	32.5°	3940.2	3855.5	3512.2	2700.0	2090.6	1711.0	1556.5	1511.9	1495.1	1500.7
4350.5	35°	4241.6	4218.4	3746.7	2658.1	1900.8	1541.7	1418.8	1380.7	1348.1	1340.7
4624.0	37.5°	4526.3	4517.0	3922.5	2599.5	1712.8	1421.6	1308.1	1257.9	1210.4	1184.4
4926.4	40°	4839.0	4829.6	4037.9	2509.3	1546.3	1317.4	1208.6	1142.5	1083.9	1036.5
5268.8	42.5°	5190.6	5135.7	4092.8	2379.9	1404.9	1229.0	1127.6	1038.3	961.1	917.4
5655.8	45°	5574.9	5451.1	4091.9	2215.3	1285.8	1148.1	1041.1	914.6	842.9	802.0
6053.1	47.5°	5982.4	5752.6	4041.6	2032.9	1170.4	1058.8	907.1	810.4	762.9	737.8
6484.8	50°	6402.9	6034.5	3956.0	1823.6	1052.3	957.4	823.4	757.3	721.1	697.8
6912.8	52.5°	6798.4	6290.4	3852.7	1586.3	932.2	858.7	786.2	735.0	696.9	670.8
7327.7	55°	7165.9	6510.9	3706.7	1343.5	834.6	792.7	768.5	725.7	682.0	651.3
7749.2	57.5°	7492.4	6654.1	3454.5	1115.5	764.8	747.1	749.9	709.9	659.6	633.6
8164.2	60°	7764.1	6759.3	3081.4	904.3	708.0	702.4	721.1	680.1	621.5	591.7
8514.9	62.5°	7926.9	6757.4	2623.7	740.6	659.6	661.5	682.9	642.9	583.4	555.4
8698.2	65°	7913.0	6591.8	2121.3	633.6	613.1	615.0	642.9	602.0	551.7	535.0
8606.1	67.5°	7632.9	6188.0	1627.3	563.8	562.0	570.3	602.9	574.1	532.2	530.3
8057.2	70°	6874.6	5349.7	1172.3	508.0	508.9	521.0	563.8	556.4	521.9	525.7
6774.2	72.5°	5512.6	4078.8	787.1	449.4	450.3	469.8	526.6	542.4	511.7	561.0
4806.4	75°	3671.3	2543.7	506.1	387.0	388.0	413.1	494.0	515.4	483.8	559.2
2500.9	77.5°	1764.0	1143.4	366.6	325.6	325.6	348.9	427.0	461.5	412.2	434.5
803.9	80°	609.4	429.8	288.4	262.4	256.8	272.6	360.1	400.1	355.4	327.5
262.4	82.5°	240.0	223.3	231.7	203.8	185.1	195.4	280.0	330.3	261.4	236.3
147.9	85°	137.7	145.1	163.7	134.9	107.0	120.0	205.6	237.2	197.2	174.0
48.4	87.5°	37.2	51.2	75.4	69.8	48.4	51.2	97.7	131.2	113.5	87.5
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>
1964.1
2014.3
2094.3
2191.1
2280.4
2312.0
2312.9
2272.0
2176.2
2040.3
1898.0
1767.7
1652.4
1508.2
1346.3
1185.3
1041.1
920.2
800.1
732.2
689.4
659.6
639.2
616.8
578.7
547.1
534.0
533.1
524.7
568.5
563.8
398.2
307.0
235.4
177.7
90.2
0.0

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