

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: P948143

Luminaire Tested: **GALN-SB3B-740-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948143
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3B-740-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18114 lumens
Efficiency: N/A
Efficacy: 165.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

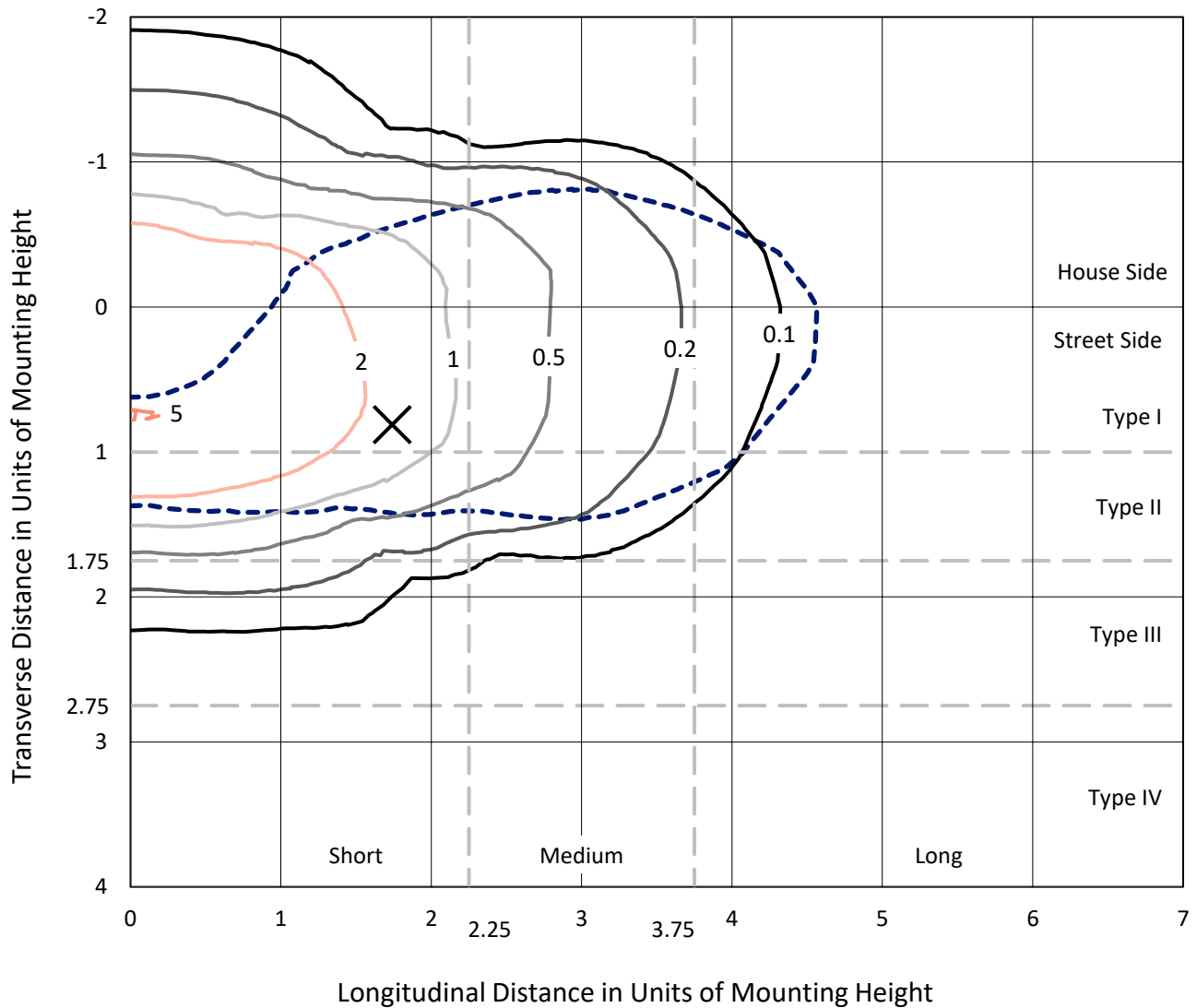
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

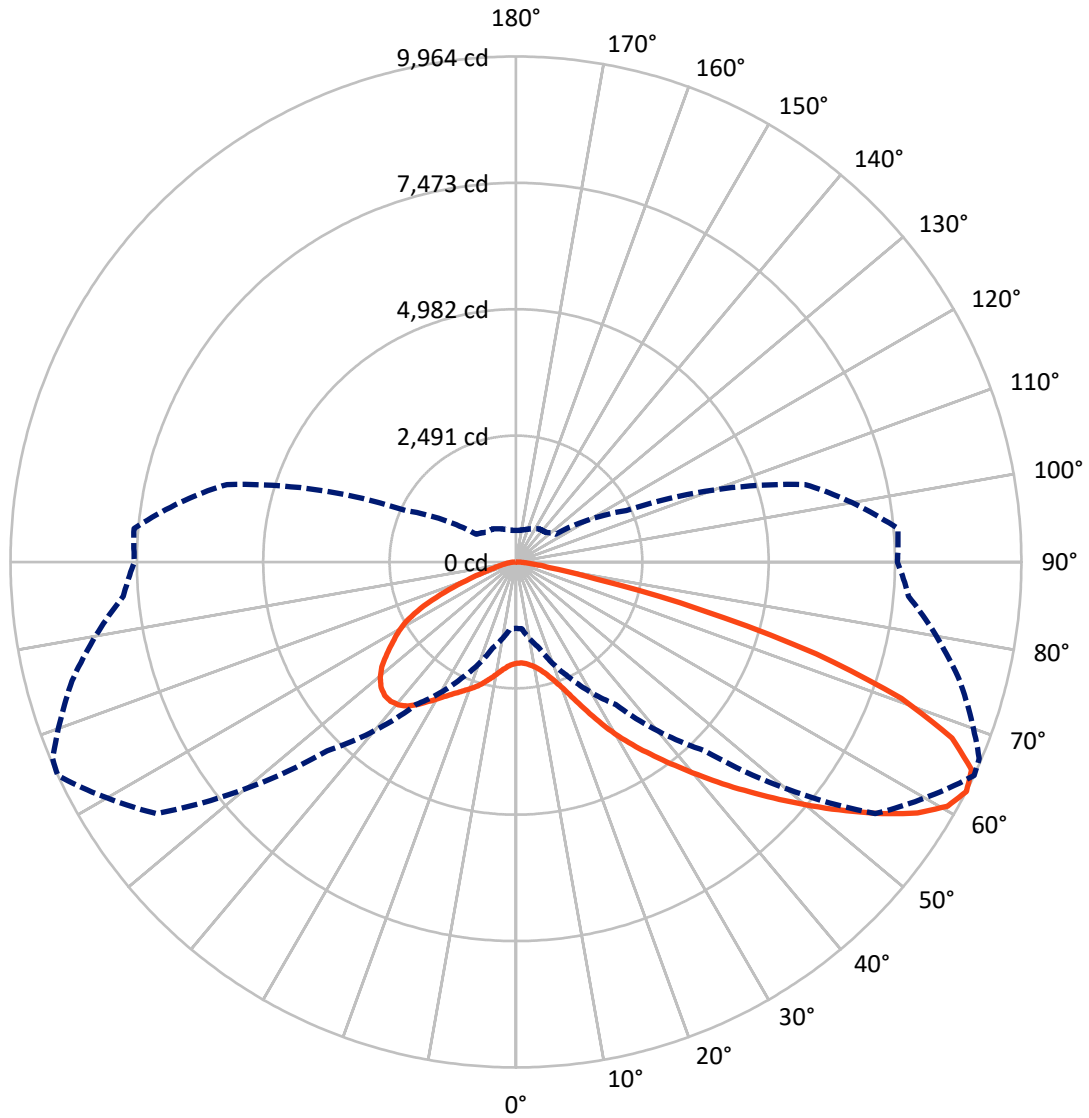
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5716.0	0.0	5716.0
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	12398.0	0.0	12398.0
	% Fixture	68.4	0.0	68.4
Total	Lumens	18114.0	0.0	18114.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.0	1.1
10°-20°	674.9	3.7
20°-30°	1368.3	7.6
30°-40°	2367.9	13.1
40°-50°	3583.3	19.8
50°-60°	4201.2	23.2
60°-70°	3522.2	19.4
70°-80°	1944.6	10.7
80°-90°	252.6	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°	18114.0	100.0
0°-180°	18114.0	100.0



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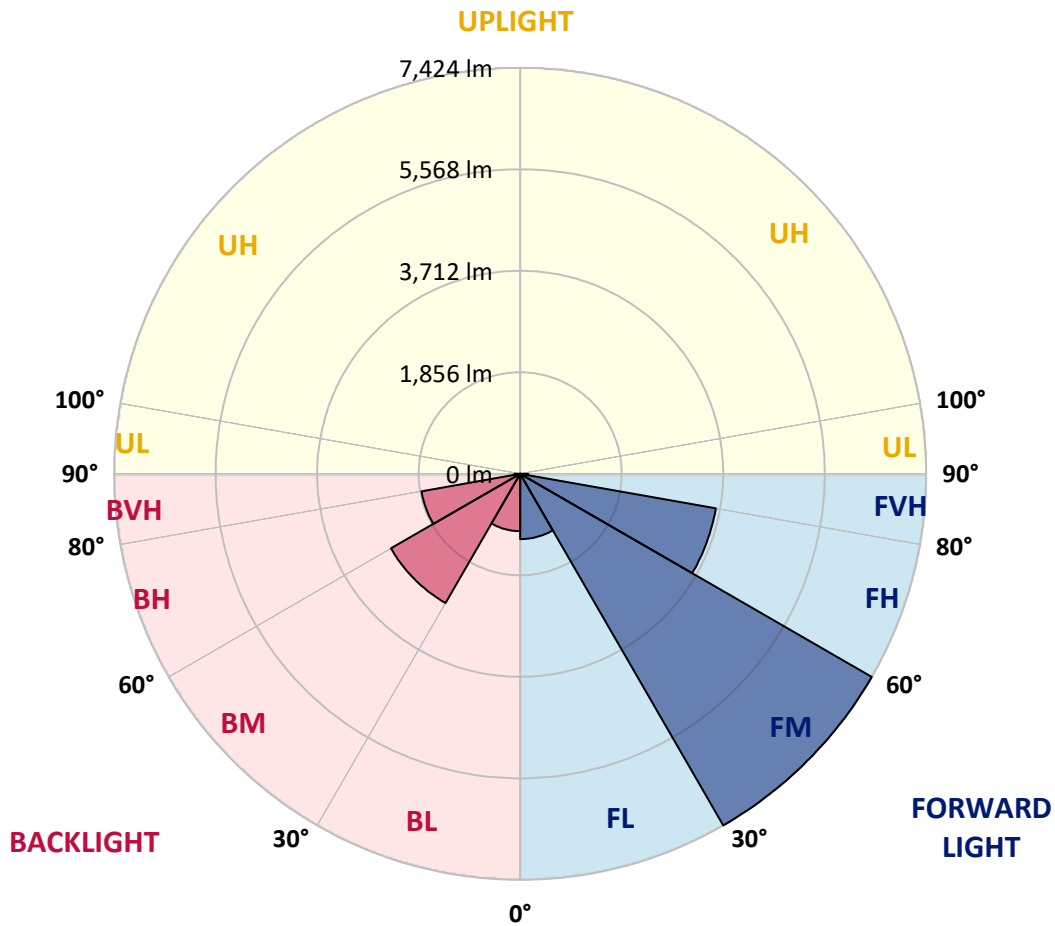
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1194.0	6.6			
FM (30°-60°)	7423.7	41.0			
FH (60°-80°)	3633.1	20.1			G2/5000
FVH (80°-90°)	147.2	0.8			G2/225
BL (0°-30°)	1048.2	5.8	B3/2500		
BM (30°-60°)	2728.7	15.1	B3/5000		
BH (60°-80°)	1833.6	10.1	B3/2500		G3/2500
BVH (80°-90°)	105.4	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	1996.1	1996.1	1996.1	1996.1	1996.1	1996.1	1996.1	1996.1	1996.1	1996.1
2.5°	1982.9	1977.3	1982.0	1982.0	1983.9	1982.9	1989.5	1991.4	1994.2	1999.8
5°	1963.2	1962.3	1970.7	1978.2	1985.7	1992.3	2000.8	2013.0	2014.9	2021.5
7.5°	1956.6	1951.0	1964.1	1973.5	1991.4	2007.4	2029.9	2050.6	2059.0	2061.9
10°	2007.4	1998.0	2010.2	2015.8	2030.9	2046.8	2073.1	2106.0	2115.4	2126.7
12.5°	2093.8	2083.5	2101.3	2109.8	2123.9	2138.0	2155.8	2187.8	2192.5	2213.2
15°	2212.2	2200.0	2211.3	2221.6	2245.1	2258.3	2276.1	2307.2	2307.2	2323.1
17.5°	2372.9	2357.0	2365.4	2369.2	2384.2	2403.9	2434.0	2461.3	2475.4	2469.7
20°	2612.6	2592.8	2592.8	2574.0	2568.4	2584.4	2623.9	2661.4	2676.5	2647.3
22.5°	2972.5	2944.3	2928.3	2864.4	2839.1	2840.9	2880.4	2926.5	2938.7	2887.0
25°	3430.2	3386.0	3364.4	3270.4	3213.1	3163.3	3194.3	3253.5	3270.4	3206.5
27.5°	3887.9	3890.7	3870.0	3757.2	3662.3	3571.1	3555.2	3617.2	3635.1	3562.7
30°	4529.7	4463.0	4423.5	4288.2	4152.9	4025.1	3959.3	3984.7	3989.3	3902.9
32.5°	5083.2	5066.3	4981.8	4863.3	4689.5	4489.3	4379.4	4338.9	4331.4	4208.3
35°	5713.8	5704.4	5615.2	5474.2	5286.2	5008.1	4809.8	4694.2	4684.8	4511.9
37.5°	6354.8	6354.8	6267.4	6113.2	5918.7	5571.0	5269.3	5086.1	5056.0	4830.4
40°	6866.0	6835.0	6851.0	6786.1	6563.4	6194.1	5779.6	5513.7	5473.3	5202.6
42.5°	7156.4	7146.1	7241.9	7314.3	7223.1	6928.0	6341.6	5977.0	5920.6	5612.3
45°	7221.2	7210.0	7381.0	7646.0	7773.8	7652.6	6952.5	6464.7	6396.1	6040.9
47.5°	7071.8	7049.3	7300.2	7718.4	8128.1	8341.5	7614.1	6993.8	6894.2	6458.1
50°	6622.6	6601.0	6980.7	7536.1	8247.5	8809.5	8332.1	7554.9	7402.6	6905.5
52.5°	5646.2	5656.5	6251.4	7014.5	8090.5	9100.8	8950.4	8146.0	7962.7	7363.1
55°	4398.2	4420.7	5151.9	5992.0	7462.8	9056.6	9372.4	8755.0	8572.6	7793.6
57.5°	3149.2	3248.8	3933.9	4765.6	6257.0	8356.5	9464.5	9333.9	9157.2	8263.5
60°	2041.2	2059.0	2763.9	3602.2	4764.7	7112.2	9277.5	9772.7	9634.6	8742.7
62.5°	1308.2	1320.4	1749.9	2519.5	3429.2	5261.8	8647.8	9963.5	9921.2	9059.4
65°	961.4	952.0	1175.7	1665.3	2310.0	3245.0	7425.2	9871.4	9955.0	9257.7
67.5°	802.6	789.4	899.4	1153.1	1701.9	1842.9	5493.9	9272.8	9579.1	9235.2
70°	731.1	719.9	786.6	856.1	1327.9	1233.9	2769.5	8061.4	8533.2	8978.6
72.5°	619.3	599.6	690.7	760.3	1032.8	946.4	1144.6	6192.2	6767.3	8156.3
75°	480.2	467.1	545.1	669.1	776.3	738.7	723.6	3760.0	4387.8	6307.8
77.5°	380.6	362.8	434.2	521.6	698.3	557.3	527.2	1619.2	2241.4	4026.9
80°	286.6	270.7	329.9	412.6	536.6	420.1	341.1	660.7	844.9	2040.3
82.5°	203.9	189.8	230.2	302.6	360.9	376.9	209.6	370.3	416.3	786.6
85°	130.6	122.2	154.1	189.8	229.3	242.5	127.8	193.6	212.4	324.2
87.5°	71.4	58.3	82.7	88.3	106.2	96.8	61.1	70.5	76.1	117.5
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°
1996.1	0°	1996.1	1996.1	1996.1	1996.1	1996.1	1996.1	1996.1	1996.1	1996.1	1996.1
1999.8	2.5°	2003.6	2006.4	2015.8	2018.6	2025.2	2033.7	2039.3	2045.0	2045.0	2050.6
2029.9	5°	2030.9	2037.4	2057.2	2067.5	2084.4	2101.3	2111.7	2123.9	2131.4	2135.2
2077.8	7.5°	2083.5	2093.8	2122.0	2139.9	2169.0	2192.5	2208.5	2225.4	2229.1	2239.5
2144.6	10°	2154.9	2167.1	2199.1	2232.9	2267.7	2296.8	2311.8	2324.1	2328.8	2330.6
2230.1	12.5°	2236.7	2254.5	2295.9	2337.2	2373.9	2399.2	2403.0	2400.2	2387.0	2375.8
2335.3	15°	2337.2	2353.2	2399.2	2444.4	2480.1	2484.8	2461.3	2446.2	2430.3	2427.4
2452.8	17.5°	2457.5	2466.0	2508.3	2552.4	2555.3	2539.3	2504.5	2490.4	2475.4	2465.0
2606.0	20°	2597.5	2594.7	2624.8	2643.6	2623.9	2575.0	2522.4	2498.9	2483.8	2471.6
2794.0	22.5°	2764.8	2743.2	2739.4	2734.7	2682.1	2579.7	2508.3	2478.2	2454.7	2437.8
3056.2	25°	3008.2	2925.5	2868.2	2836.2	2717.8	2554.3	2463.2	2396.4	2352.3	2323.1
3376.6	27.5°	3312.7	3173.6	3028.9	2950.9	2717.8	2502.6	2354.1	2246.1	2173.7	2143.6
3686.7	30°	3603.1	3457.4	3244.1	3089.0	2711.3	2418.0	2178.4	2028.0	1943.5	1913.4
3951.8	32.5°	3851.2	3692.4	3472.5	3240.3	2695.3	2280.8	1960.4	1794.0	1712.3	1676.6
4214.0	35°	4081.4	3912.3	3701.8	3406.7	2653.0	2079.7	1720.7	1593.9	1502.7	1445.4
4480.9	37.5°	4317.3	4116.2	3918.9	3557.1	2576.9	1844.8	1536.5	1428.5	1321.3	1244.3
4764.7	40°	4573.9	4333.3	4151.0	3646.3	2451.9	1621.1	1393.7	1295.0	1181.3	1099.5
5091.7	42.5°	4873.7	4593.6	4409.4	3692.4	2280.8	1462.3	1300.7	1203.9	1096.7	1030.0
5442.2	45°	5186.6	4880.3	4645.3	3691.4	2090.1	1388.0	1270.6	1174.7	1056.3	986.8
5802.2	47.5°	5514.6	5180.0	4849.2	3631.3	1924.7	1398.4	1253.7	1111.8	981.1	913.5
6165.9	50°	5843.5	5508.0	5046.6	3518.5	1854.2	1375.8	1190.7	1023.4	869.3	808.2
6507.0	52.5°	6169.6	5856.7	5216.7	3357.8	1782.8	1292.2	1109.9	908.8	823.2	781.0
6859.4	55°	6497.6	6201.6	5401.8	3123.8	1604.2	1194.5	974.5	865.5	786.6	748.1
7204.3	57.5°	6826.5	6600.0	5577.6	2889.8	1379.6	1074.2	900.3	812.9	749.9	717.0
7492.8	60°	7168.6	7055.8	5758.9	2674.6	1157.8	920.0	845.8	770.6	706.7	670.1
7770.1	62.5°	7521.0	7557.7	5900.9	2397.4	953.9	826.1	796.9	719.9	657.8	623.1
7999.4	65°	7876.3	8041.7	5993.9	2013.0	773.4	736.8	744.3	664.4	601.5	571.4
8167.6	67.5°	8144.1	8390.3	5967.6	1523.4	634.3	652.2	678.5	606.2	546.9	523.5
8140.3	70°	8174.2	8349.0	5708.2	1043.2	531.0	569.5	605.2	548.8	487.7	470.8
7756.9	72.5°	7773.8	7785.1	4985.5	681.3	449.2	500.0	528.2	490.6	431.4	414.4
6786.1	75°	6724.1	6438.4	3660.4	449.2	375.9	429.5	455.8	429.5	372.2	375.9
5077.6	77.5°	5094.5	4559.8	2222.6	319.5	313.9	360.9	396.6	377.8	328.9	369.3
2553.4	80°	2624.8	2466.9	991.5	238.7	248.1	288.5	326.1	301.7	260.3	248.1
570.4	82.5°	601.5	699.2	390.9	171.0	179.5	207.7	249.0	226.5	187.0	157.9
237.8	85°	210.5	230.2	172.9	107.1	105.3	129.7	169.2	151.3	126.9	101.5
100.6	87.5°	66.7	87.4	64.8	43.2	45.1	58.3	78.0	71.4	59.2	38.5
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>
1996.1
2050.6
2137.1
2235.7
2325.9
2375.8
2427.4
2466.0
2472.6
2443.4
2334.4
2158.7
1931.2
1694.4
1464.2
1264.9
1115.5
1043.2
998.0
922.9
812.0
781.0
744.3
711.4
667.2
622.1
570.4
524.4
471.8
413.5
362.8
325.2
226.5
156.0
107.1
40.4
0.0

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