

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: P939987

Luminaire Tested: **GALN-SB2D-830-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939987
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-830-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18298 lumens
Efficiency: N/A
Efficacy: 124.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

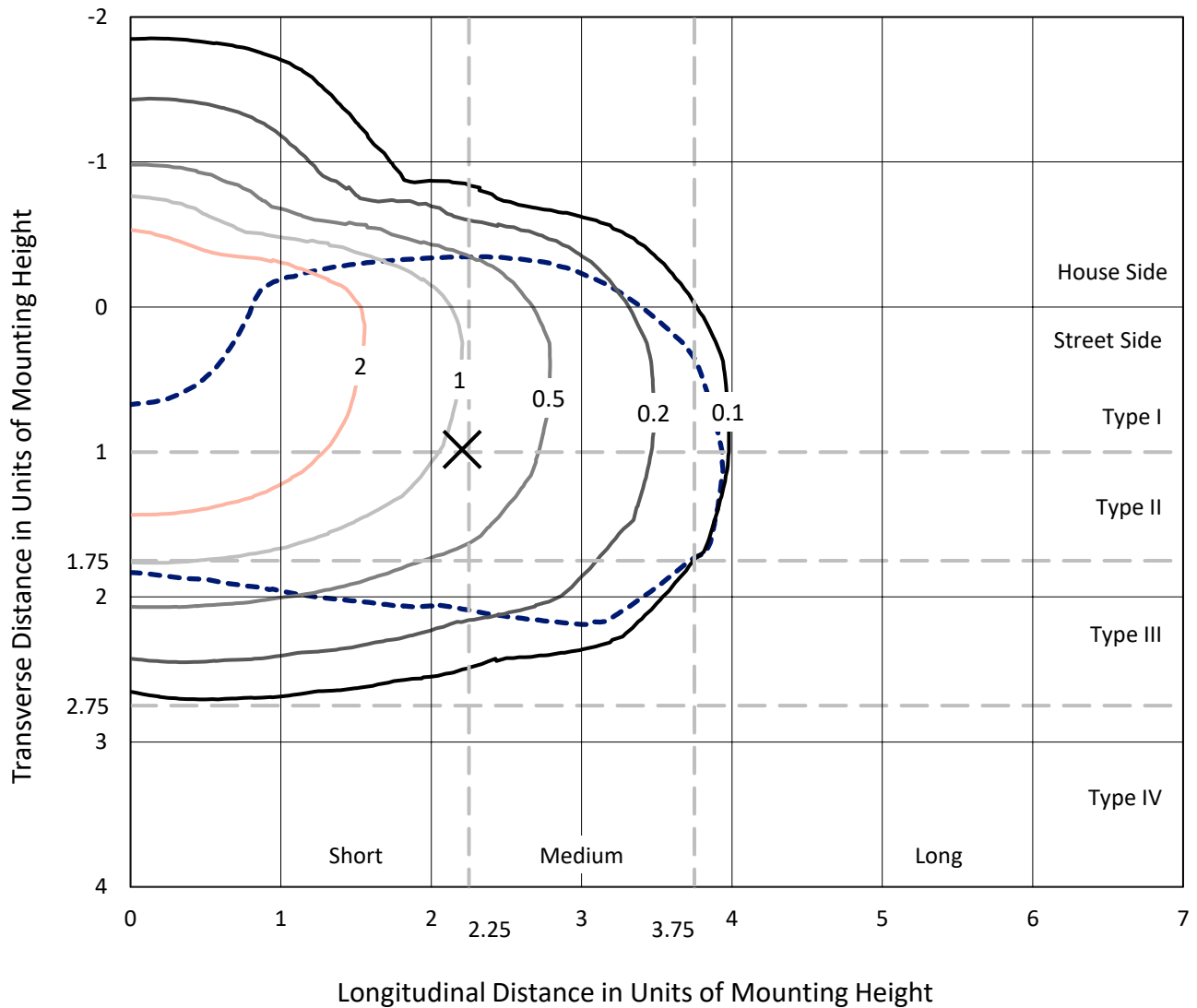
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

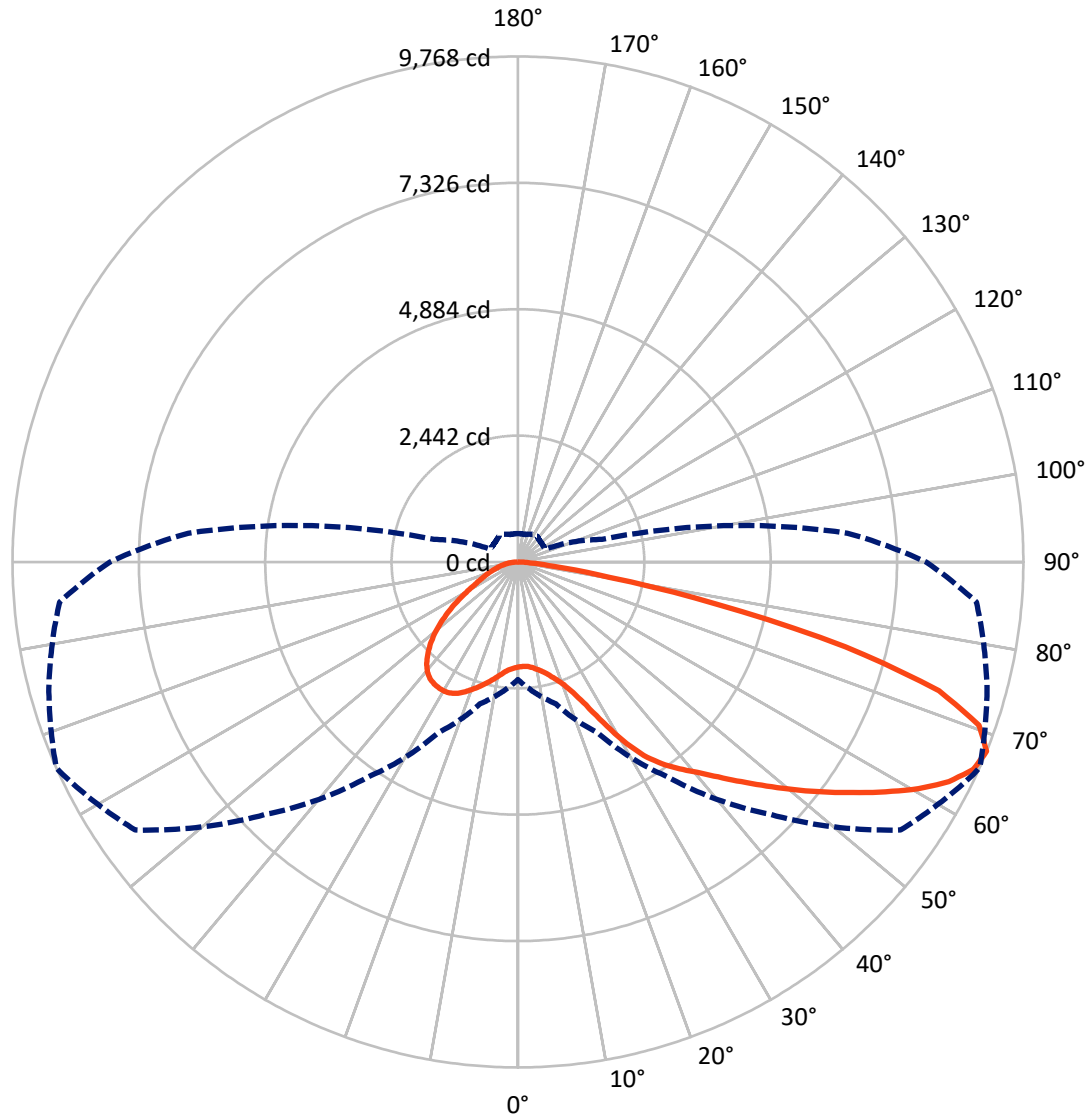
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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	4549.7	0.0	4549.7
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	13748.3	0.0	13748.3
	% Fixture	75.1	0.0	75.1
Total	Lumens	18298.0	0.0	18298.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.2	1.1
10°-20°	664.8	3.6
20°-30°	1281.4	7.0
30°-40°	2246.7	12.3
40°-50°	3340.1	18.3
50°-60°	4233.9	23.1
60°-70°	4142.7	22.6
70°-80°	1976.1	10.8
80°-90°	211.2	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°	18298.0	100.0
0°-180°	18298.0	100.0

Coefficient of Utilization



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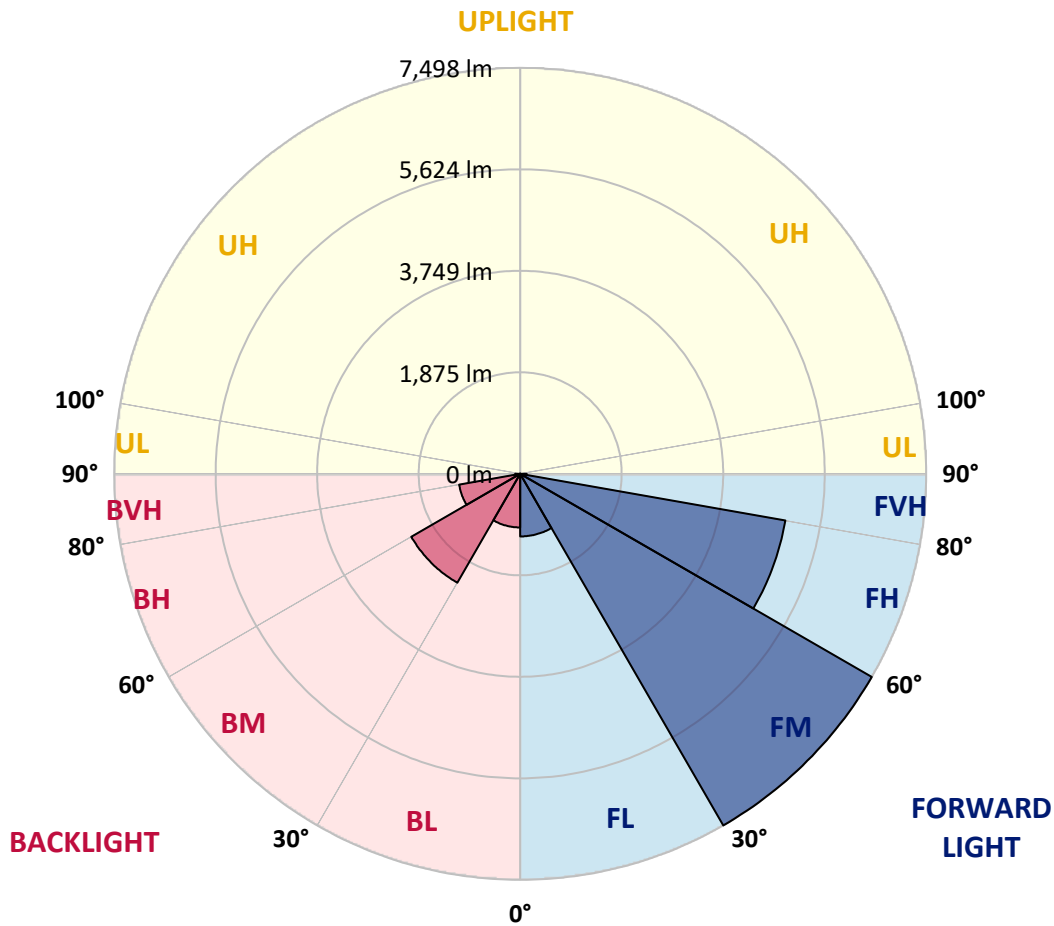
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1156.3	6.3			
FM (30°-60°)	7498.4	41.0			
FH (60°-80°)	4973.9	27.2			G2/5000
FVH (80°-90°)	119.7	0.7			G2/225
BL (0°-30°)	991.1	5.4	B2/1000		
BM (30°-60°)	2322.2	12.7	B2/2500		
BH (60°-80°)	1145.0	6.3	B3/2500		G3/2500
BVH (80°-90°)	91.5	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°	2029.5	2029.5	2029.5	2029.5	2029.5	2029.5	2029.5	2029.5	2029.5	2029.5
2.5°	2008.3	2019.9	2017.0	2012.2	2011.2	2013.1	2016.0	2018.9	2018.0	2022.8
5°	2002.6	2014.1	2013.1	2013.1	2017.0	2024.7	2029.5	2034.3	2029.5	2035.3
7.5°	2006.4	2015.1	2018.9	2022.8	2032.4	2046.8	2058.3	2068.9	2063.1	2069.9
10°	2055.4	2062.2	2066.0	2066.0	2072.8	2089.1	2100.6	2119.9	2115.1	2125.6
12.5°	2144.9	2151.6	2151.6	2147.7	2152.5	2163.1	2167.0	2188.1	2179.5	2196.8
15°	2254.5	2267.9	2257.3	2250.6	2252.5	2263.1	2262.1	2278.5	2269.8	2284.3
17.5°	2375.6	2392.9	2375.6	2374.6	2370.8	2382.3	2383.3	2397.7	2382.3	2392.9
20°	2518.8	2542.9	2528.5	2533.3	2524.6	2529.4	2534.2	2555.4	2531.3	2539.0
22.5°	2720.7	2749.6	2734.2	2752.5	2746.7	2742.8	2741.9	2779.4	2741.9	2744.8
25°	3014.9	3049.5	3022.6	3047.6	3047.6	3060.1	3074.5	3122.6	3060.1	3041.8
27.5°	3449.5	3484.1	3431.2	3446.6	3441.8	3472.5	3457.2	3576.4	3509.1	3479.3
30°	3972.5	4034.0	3934.0	3930.2	3925.3	3974.4	3996.5	4075.3	4007.1	3977.3
32.5°	4537.8	4602.2	4483.0	4448.3	4430.1	4459.9	4441.6	4505.1	4458.0	4411.8
35°	5135.7	5199.2	5085.7	5018.4	4945.4	4882.9	4817.5	4833.9	4789.6	4719.5
37.5°	5701.0	5817.4	5697.2	5625.1	5490.5	5368.4	5185.7	5109.8	5068.4	5004.0
40°	6276.9	6343.2	6251.9	6190.4	6044.2	5852.9	5560.7	5400.1	5344.4	5281.9
42.5°	6700.9	6764.3	6715.3	6673.0	6558.6	6336.5	5958.7	5757.8	5677.0	5606.8
45°	7037.4	7084.5	7053.7	7069.1	7020.1	6804.7	6371.1	6141.3	6057.7	5972.1
47.5°	7172.9	7222.9	7271.9	7363.3	7446.9	7288.3	6814.3	6556.7	6468.2	6380.7
50°	7157.5	7208.5	7350.8	7545.0	7804.5	7751.7	7281.6	6998.9	6917.2	6817.2
52.5°	7034.5	7092.2	7274.8	7597.8	8011.2	8098.7	7757.4	7455.6	7378.7	7259.4
55°	6711.4	6746.1	7020.1	7477.7	8060.3	8341.0	8223.7	7942.0	7865.1	7698.8
57.5°	6112.5	6162.5	6561.5	7153.7	7937.2	8505.4	8633.3	8453.5	8379.5	8140.1
60°	5330.9	5410.7	5867.4	6609.5	7623.8	8504.4	9005.3	8956.3	8894.8	8574.6
62.5°	4446.4	4538.7	4978.1	5840.4	7075.8	8263.1	9238.0	9377.4	9345.7	8975.5
65°	3414.9	3478.3	3915.7	4845.4	6223.1	7744.9	9264.9	9664.8	9670.6	9280.3
67.5°	2273.7	2456.3	2836.1	3636.0	5080.9	6898.0	9028.4	9711.9	9767.7	9385.1
70°	1109.4	1349.8	1721.8	2363.1	3636.0	5599.1	8410.2	9325.5	9449.5	9079.3
72.5°	460.5	538.4	741.2	1166.2	2087.2	3778.3	7168.1	8277.6	8507.3	8044.9
75°	310.5	336.5	424.0	598.0	950.8	1863.2	5169.4	6172.1	6542.2	6076.0
77.5°	239.4	255.7	308.6	418.2	565.3	704.7	2766.9	3719.6	3910.9	3620.6
80°	188.4	200.9	230.7	304.8	400.9	376.9	943.1	1685.3	1795.9	1506.5
82.5°	163.4	168.2	165.4	206.7	266.3	220.2	309.6	622.0	686.4	498.0
85°	118.3	131.7	137.5	127.9	141.3	111.5	126.9	220.2	242.3	216.3
87.5°	48.1	71.1	87.5	82.7	51.9	31.7	39.4	64.4	74.0	80.8
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°
2029.5	0°	2029.5	2029.5	2029.5	2029.5	2029.5	2029.5	2029.5	2029.5	2029.5	2029.5
2030.5	2.5°	2031.4	2038.1	2042.9	2048.7	2052.6	2058.3	2069.9	2076.6	2077.6	2082.4
2045.8	5°	2049.7	2059.3	2069.9	2085.3	2102.6	2117.0	2139.1	2154.5	2160.2	2165.0
2083.3	7.5°	2089.1	2102.6	2121.8	2148.7	2173.7	2192.9	2219.8	2238.1	2256.4	2263.1
2142.9	10°	2147.7	2167.0	2194.8	2231.4	2258.3	2283.3	2311.2	2326.6	2344.8	2352.5
2214.1	12.5°	2220.8	2241.0	2277.5	2328.5	2353.5	2370.8	2380.4	2376.6	2380.4	2387.1
2299.6	15°	2304.4	2326.6	2367.9	2422.7	2440.0	2424.6	2403.5	2384.2	2381.4	2383.3
2403.5	17.5°	2403.5	2419.8	2467.9	2514.0	2501.5	2438.1	2391.9	2361.2	2345.8	2341.0
2536.1	20°	2541.9	2541.9	2581.3	2610.2	2526.5	2418.9	2346.7	2296.8	2265.0	2251.6
2716.9	22.5°	2710.2	2694.8	2719.8	2699.6	2521.7	2365.0	2265.0	2178.5	2130.4	2111.2
2969.7	25°	2923.6	2905.3	2898.6	2773.6	2487.1	2279.5	2117.0	2012.2	1969.9	1959.3
3334.1	27.5°	3245.6	3199.5	3112.0	2814.0	2423.7	2144.9	1943.9	1846.8	1822.8	1823.8
3802.3	30°	3674.4	3582.1	3367.7	2820.7	2319.8	1954.5	1767.0	1697.8	1686.3	1691.1
4195.5	32.5°	4071.5	3984.0	3629.2	2789.9	2160.2	1768.0	1608.4	1562.3	1545.0	1550.7
4495.5	35°	4383.0	4358.9	3871.5	2746.7	1964.1	1593.0	1466.1	1426.7	1393.1	1385.4
4778.1	37.5°	4677.2	4667.5	4053.2	2686.1	1769.9	1469.0	1351.7	1299.8	1250.8	1223.8
5090.5	40°	5000.2	4990.6	4172.4	2592.9	1597.8	1361.3	1248.8	1180.6	1120.0	1071.0
5444.3	42.5°	5363.6	5306.9	4229.1	2459.2	1451.7	1270.0	1165.2	1072.9	993.1	947.9
5844.3	45°	5760.6	5632.8	4228.2	2289.1	1328.6	1186.4	1075.8	945.0	871.0	828.7
6254.8	47.5°	6181.7	5944.3	4176.3	2100.6	1209.4	1094.1	937.4	837.4	788.3	762.4
6700.9	50°	6616.3	6235.6	4087.8	1884.3	1087.3	989.3	850.8	782.6	745.1	721.0
7143.1	52.5°	7024.9	6499.9	3981.1	1639.2	963.3	887.4	812.4	759.5	720.1	693.2
7571.9	55°	7404.6	6727.8	3830.2	1388.2	862.4	819.1	794.1	749.9	704.7	673.0
8007.4	57.5°	7742.1	6875.8	3569.6	1152.7	790.3	772.0	774.9	733.5	681.6	654.7
8436.2	60°	8022.8	6984.5	3184.1	934.5	731.6	725.8	745.1	702.8	642.2	611.4
8798.6	62.5°	8191.0	6982.6	2711.1	765.3	681.6	683.5	705.7	664.3	602.8	573.9
8988.0	65°	8176.6	6811.4	2192.0	654.7	633.6	635.5	664.3	622.0	570.1	552.8
8892.8	67.5°	7887.2	6394.2	1681.5	582.6	580.7	589.3	623.0	593.2	549.9	548.0
8325.6	70°	7103.7	5528.0	1211.3	524.9	525.9	538.4	582.6	574.9	539.3	543.2
6999.9	72.5°	5696.2	4214.7	813.3	464.4	465.3	485.5	544.1	560.5	528.8	579.7
4966.5	75°	3793.6	2628.4	523.0	399.9	400.9	426.9	510.5	532.6	499.9	577.8
2584.2	77.5°	1822.8	1181.5	378.8	336.5	336.5	360.5	441.3	476.8	425.9	449.0
830.6	80°	629.7	444.2	298.0	271.1	265.3	281.7	372.1	413.4	367.3	338.4
271.1	82.5°	248.0	230.7	239.4	210.5	191.3	201.9	289.4	341.3	270.2	244.2
152.9	85°	142.3	150.0	169.2	139.4	110.6	124.0	212.5	245.2	203.8	179.8
50.0	87.5°	38.5	52.9	77.9	72.1	50.0	52.9	100.9	135.6	117.3	90.4
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>
2029.5
2081.4
2164.1
2264.1
2356.4
2389.0
2390.0
2347.7
2248.7
2108.3
1961.2
1826.6
1707.4
1558.4
1391.1
1224.8
1075.8
950.8
826.8
756.6
712.4
681.6
660.5
637.4
598.0
565.3
551.8
550.9
542.2
587.4
582.6
411.5
317.3
243.2
183.6
93.3
0.0

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