

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: P948227

Luminaire Tested: **GALN-SB3B-830-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948227
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-830-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15385 lumens
Efficiency: N/A
Efficacy: 140.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

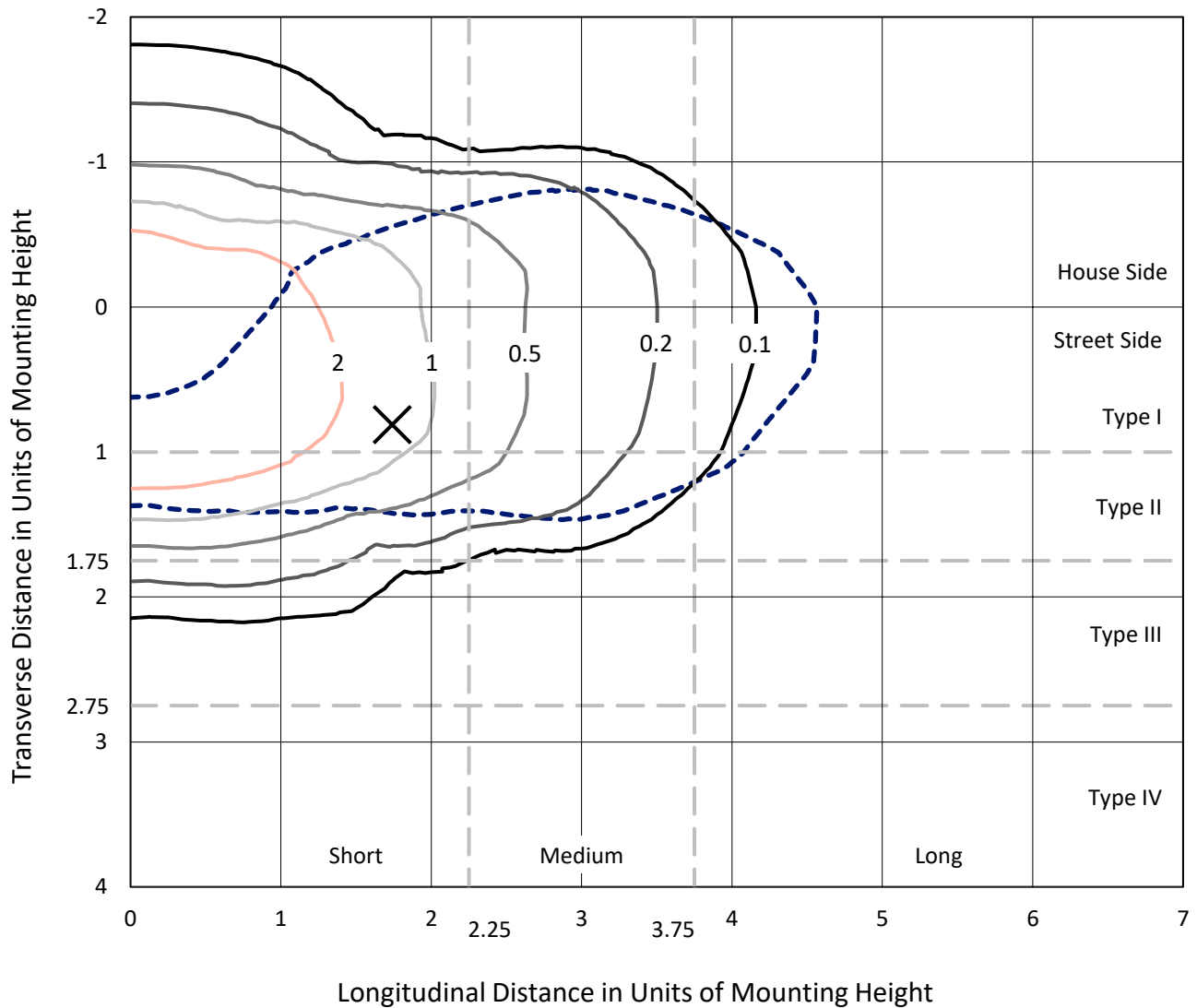
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

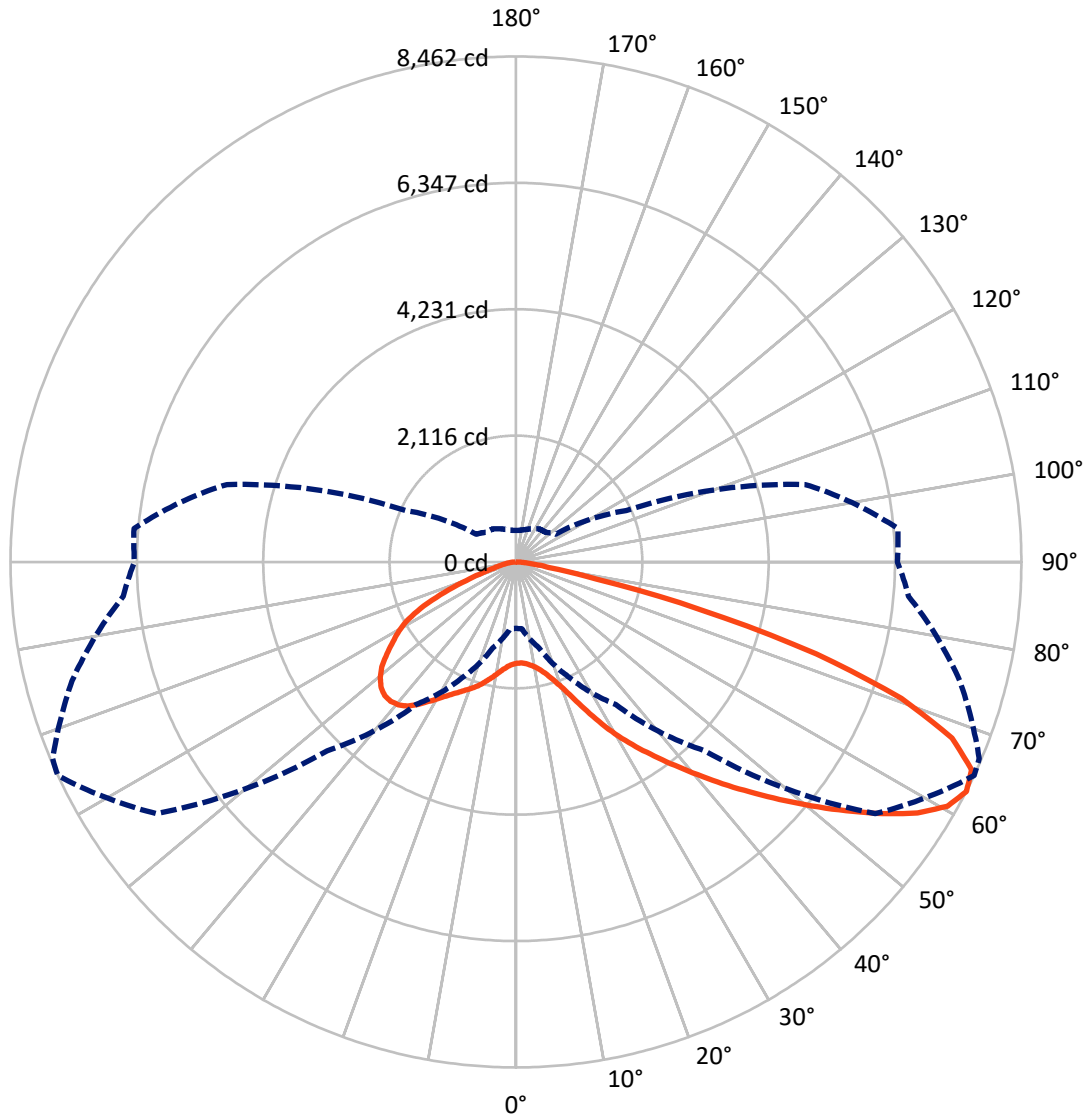
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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	4854.8	0.0	4854.8
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	10530.2	0.0	10530.2
	% Fixture	68.4	0.0	68.4
Total	Lumens	15385.0	0.0	15385.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.0	1.1
10°-20°	573.2	3.7
20°-30°	1162.2	7.6
30°-40°	2011.1	13.1
40°-50°	3043.5	19.8
50°-60°	3568.3	23.2
60°-70°	2991.6	19.4
70°-80°	1651.6	10.7
80°-90°	214.5	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°	15385.0	100.0
0°-180°	15385.0	100.0



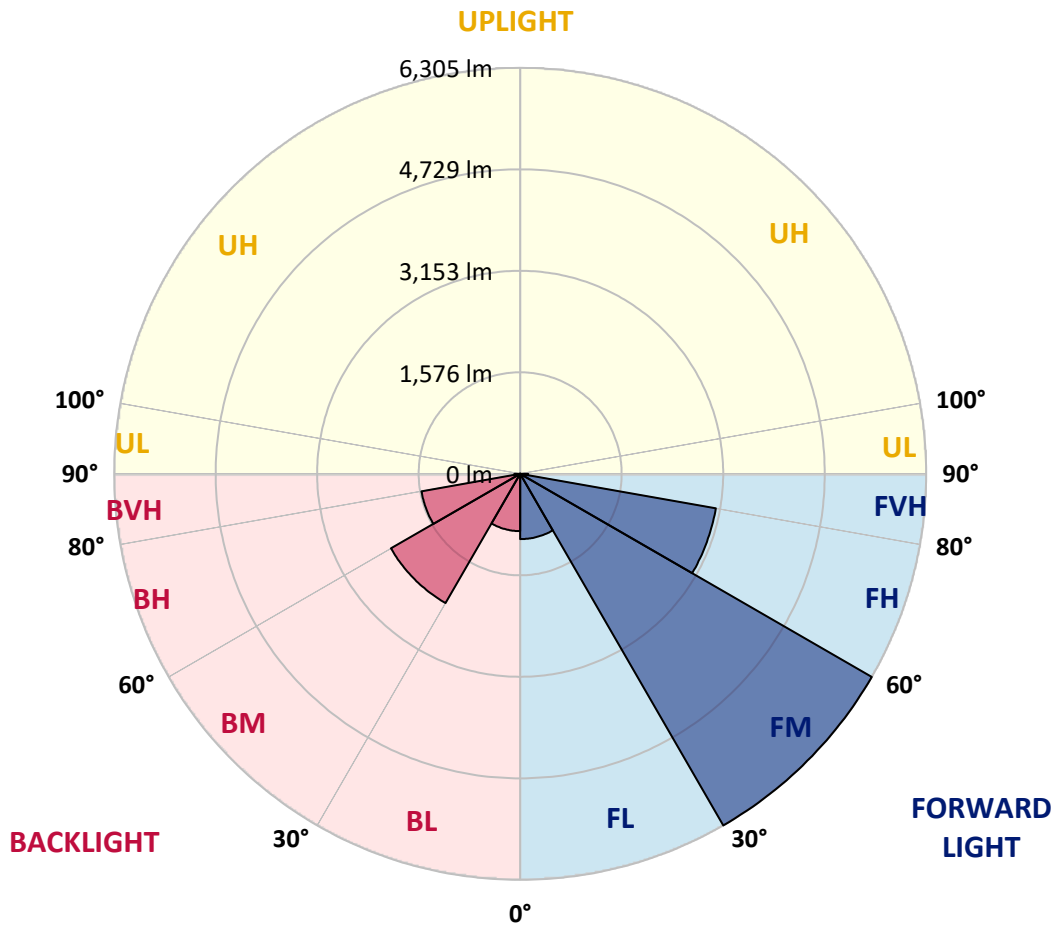
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1014.1	6.6			
FM (30°-60°)	6305.3	41.0			
FH (60°-80°)	3085.8	20.1			G2/5000
FVH (80°-90°)	125.0	0.8			G2/225
BL (0°-30°)	890.3	5.8	B2/1000		
BM (30°-60°)	2317.6	15.1	B2/2500		
BH (60°-80°)	1557.4	10.1	B3/2500		G3/2500
BVH (80°-90°)	89.5	0.6			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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	1695.4	1695.4	1695.4	1695.4	1695.4	1695.4	1695.4	1695.4	1695.4	1695.4
2.5°	1684.2	1679.4	1683.4	1683.4	1685.0	1684.2	1689.8	1691.4	1693.8	1698.6
5°	1667.4	1666.6	1673.8	1680.2	1686.6	1692.2	1699.4	1709.7	1711.3	1716.9
7.5°	1661.8	1657.0	1668.2	1676.2	1691.4	1704.9	1724.1	1741.7	1748.8	1751.2
10°	1704.9	1697.0	1707.3	1712.1	1724.9	1738.5	1760.8	1788.7	1796.7	1806.3
12.5°	1778.4	1769.6	1784.8	1791.9	1803.9	1815.9	1831.1	1858.2	1862.2	1879.7
15°	1878.9	1868.6	1878.1	1886.9	1906.9	1918.1	1933.2	1959.6	1959.6	1973.1
17.5°	2015.4	2001.9	2009.0	2012.2	2025.0	2041.8	2067.3	2090.5	2102.4	2097.6
20°	2219.0	2202.2	2202.2	2186.2	2181.5	2195.0	2228.6	2260.5	2273.3	2248.5
22.5°	2524.7	2500.7	2487.2	2432.9	2411.3	2412.9	2446.5	2485.6	2495.9	2452.0
25°	2913.4	2875.9	2857.5	2777.7	2729.0	2686.7	2713.1	2763.3	2777.7	2723.4
27.5°	3302.1	3304.5	3287.0	3191.2	3110.6	3033.1	3019.6	3072.2	3087.4	3025.9
30°	3847.3	3790.6	3757.1	3642.2	3527.2	3418.7	3362.8	3384.3	3388.3	3314.9
32.5°	4317.4	4303.1	4231.2	4130.6	3983.0	3813.0	3719.6	3685.3	3678.9	3574.3
35°	4853.0	4845.0	4769.2	4649.5	4489.8	4253.6	4085.1	3987.0	3979.0	3832.1
37.5°	5397.4	5397.4	5323.1	5192.2	5027.0	4731.7	4475.5	4319.8	4294.3	4102.7
40°	5831.6	5805.3	5818.8	5763.7	5574.6	5260.9	4908.9	4683.0	4648.7	4418.8
42.5°	6078.2	6069.5	6150.9	6212.3	6134.9	5884.3	5386.2	5076.5	5028.6	4766.8
45°	6133.3	6123.7	6269.0	6494.1	6602.6	6499.7	5905.0	5490.8	5432.5	5130.8
47.5°	6006.4	5987.2	6200.4	6555.6	6903.6	7084.8	6467.0	5940.1	5855.5	5485.2
50°	5624.9	5606.5	5929.0	6400.7	7004.9	7482.3	7076.8	6416.7	6287.4	5865.1
52.5°	4795.5	4804.3	5309.6	5957.7	6871.6	7729.7	7602.0	6918.7	6763.1	6253.8
55°	3735.5	3754.7	4375.7	5089.3	6338.4	7692.2	7960.4	7436.0	7281.1	6619.4
57.5°	2674.7	2759.4	3341.2	4047.6	5314.4	7097.5	8038.6	7927.6	7777.6	7018.5
60°	1733.7	1748.8	2347.5	3059.5	4046.8	6040.7	7879.8	8300.4	8183.1	7425.6
62.5°	1111.1	1121.5	1486.2	2140.0	2912.6	4469.1	7345.0	8462.4	8426.5	7694.6
65°	816.6	808.6	998.5	1414.4	1962.0	2756.2	6306.5	8384.2	8455.3	7863.0
67.5°	681.7	670.5	763.9	979.4	1445.5	1565.3	4666.2	7875.8	8136.0	7843.8
70°	621.0	611.4	668.1	727.2	1127.8	1048.0	2352.3	6846.9	7247.6	7625.9
72.5°	526.0	509.2	586.7	645.7	877.2	803.8	972.2	5259.3	5747.8	6927.5
75°	407.9	396.7	463.0	568.3	659.3	627.4	614.6	3193.6	3726.8	5357.5
77.5°	323.3	308.1	368.8	443.0	593.1	473.3	447.8	1375.3	1903.7	3420.3
80°	243.4	229.9	280.2	350.4	455.8	356.8	289.7	561.1	717.6	1732.9
82.5°	173.2	161.2	195.6	257.0	306.5	320.1	178.0	314.5	353.6	668.1
85°	110.9	103.8	130.9	161.2	194.8	205.9	108.6	164.4	180.4	275.4
87.5°	60.7	49.5	70.2	75.0	90.2	82.2	51.9	59.9	64.7	99.8
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°
1695.4	0°	1695.4	1695.4	1695.4	1695.4	1695.4	1695.4	1695.4	1695.4	1695.4	1695.4
1698.6	2.5°	1701.7	1704.1	1712.1	1714.5	1720.1	1727.3	1732.1	1736.9	1736.9	1741.7
1724.1	5°	1724.9	1730.5	1747.2	1756.0	1770.4	1784.8	1793.5	1803.9	1810.3	1813.5
1764.8	7.5°	1769.6	1778.4	1802.3	1817.5	1842.2	1862.2	1875.8	1890.1	1893.3	1902.1
1821.5	10°	1830.3	1840.6	1867.8	1896.5	1926.0	1950.8	1963.6	1973.9	1977.9	1979.5
1894.1	12.5°	1899.7	1914.9	1950.0	1985.1	2016.2	2037.8	2041.0	2038.6	2027.4	2017.8
1983.5	15°	1985.1	1998.7	2037.8	2076.1	2106.4	2110.4	2090.5	2077.7	2064.1	2061.7
2083.3	17.5°	2087.3	2094.5	2130.4	2167.9	2170.3	2156.7	2127.2	2115.2	2102.4	2093.7
2213.4	20°	2206.2	2203.8	2229.4	2245.3	2228.6	2187.0	2142.3	2122.4	2109.6	2099.2
2373.0	22.5°	2348.3	2329.9	2326.7	2322.7	2278.0	2191.0	2130.4	2104.8	2084.9	2070.5
2595.7	25°	2555.0	2484.8	2436.1	2408.9	2308.4	2169.5	2092.1	2035.4	1997.9	1973.1
2867.9	27.5°	2813.6	2695.5	2572.6	2506.3	2308.4	2125.6	1999.5	1907.7	1846.2	1820.7
3131.3	30°	3060.3	2936.5	2755.4	2623.7	2302.8	2053.7	1850.2	1722.5	1650.7	1625.1
3356.4	32.5°	3271.0	3136.1	2949.3	2752.2	2289.2	1937.2	1665.0	1523.7	1454.3	1424.0
3579.1	35°	3466.5	3322.9	3144.1	2893.4	2253.3	1766.4	1461.5	1353.7	1276.3	1227.6
3805.8	37.5°	3666.9	3496.1	3328.5	3021.2	2188.6	1566.9	1305.0	1213.3	1122.3	1056.8
4046.8	40°	3884.8	3680.5	3525.6	3097.0	2082.5	1376.9	1183.7	1099.9	1003.3	933.9
4324.6	42.5°	4139.4	3901.6	3745.1	3136.1	1937.2	1242.0	1104.7	1022.5	931.5	874.8
4622.3	45°	4405.2	4145.0	3945.5	3135.3	1775.2	1178.9	1079.2	997.7	897.2	838.1
4928.0	47.5°	4683.8	4399.6	4118.7	3084.2	1634.7	1187.7	1064.8	944.3	833.3	775.8
5236.9	50°	4963.2	4678.2	4286.3	2988.4	1574.8	1168.6	1011.3	869.2	738.3	686.4
5526.7	52.5°	5240.1	4974.3	4430.8	2851.9	1514.2	1097.5	942.7	771.9	699.2	663.3
5826.0	55°	5518.7	5267.3	4588.0	2653.2	1362.5	1014.5	827.7	735.1	668.1	635.4
6118.9	57.5°	5798.1	5605.7	4737.3	2454.4	1171.7	912.3	764.7	690.4	637.0	609.0
6364.0	60°	6088.6	5992.8	4891.3	2271.7	983.4	781.4	718.4	654.5	600.2	569.1
6599.5	62.5°	6387.9	6419.1	5011.8	2036.2	810.2	701.6	676.9	611.4	558.7	529.2
6794.2	65°	6689.6	6830.1	5090.9	1709.7	656.9	625.8	632.2	564.3	510.8	485.3
6937.1	67.5°	6917.1	7126.3	5068.5	1293.9	538.8	553.9	576.3	514.8	464.5	444.6
6913.9	70°	6942.7	7091.1	4848.2	886.0	451.0	483.7	514.0	466.1	414.3	399.9
6588.3	72.5°	6602.6	6612.2	4234.4	578.7	381.5	424.6	448.6	416.7	366.4	352.0
5763.7	75°	5711.1	5468.4	3109.0	381.5	319.3	364.8	387.1	364.8	316.1	319.3
4312.6	77.5°	4327.0	3872.8	1887.7	271.4	266.6	306.5	336.8	320.9	279.4	313.7
2168.7	80°	2229.4	2095.3	842.1	202.7	210.7	245.0	277.0	256.2	221.1	210.7
484.5	82.5°	510.8	593.9	332.0	145.3	152.5	176.4	211.5	192.4	158.8	134.1
201.9	85°	178.8	195.6	146.9	91.0	89.4	110.2	143.7	128.5	107.8	86.2
85.4	87.5°	56.7	74.2	55.1	36.7	38.3	49.5	66.2	60.7	50.3	32.7
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>
1695.4
1741.7
1815.1
1898.9
1975.5
2017.8
2061.7
2094.5
2100.0
2075.3
1982.7
1833.4
1640.3
1439.1
1243.6
1074.4
947.5
886.0
847.7
783.8
689.6
663.3
632.2
604.2
566.7
528.4
484.5
445.4
400.7
351.2
308.1
276.2
192.4
132.5
91.0
34.3
0.0

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