

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: P947935

Luminaire Tested: **GALN-SB3A-850-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947935
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3A-850-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13216 lumens
Efficiency: N/A
Efficacy: 156.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

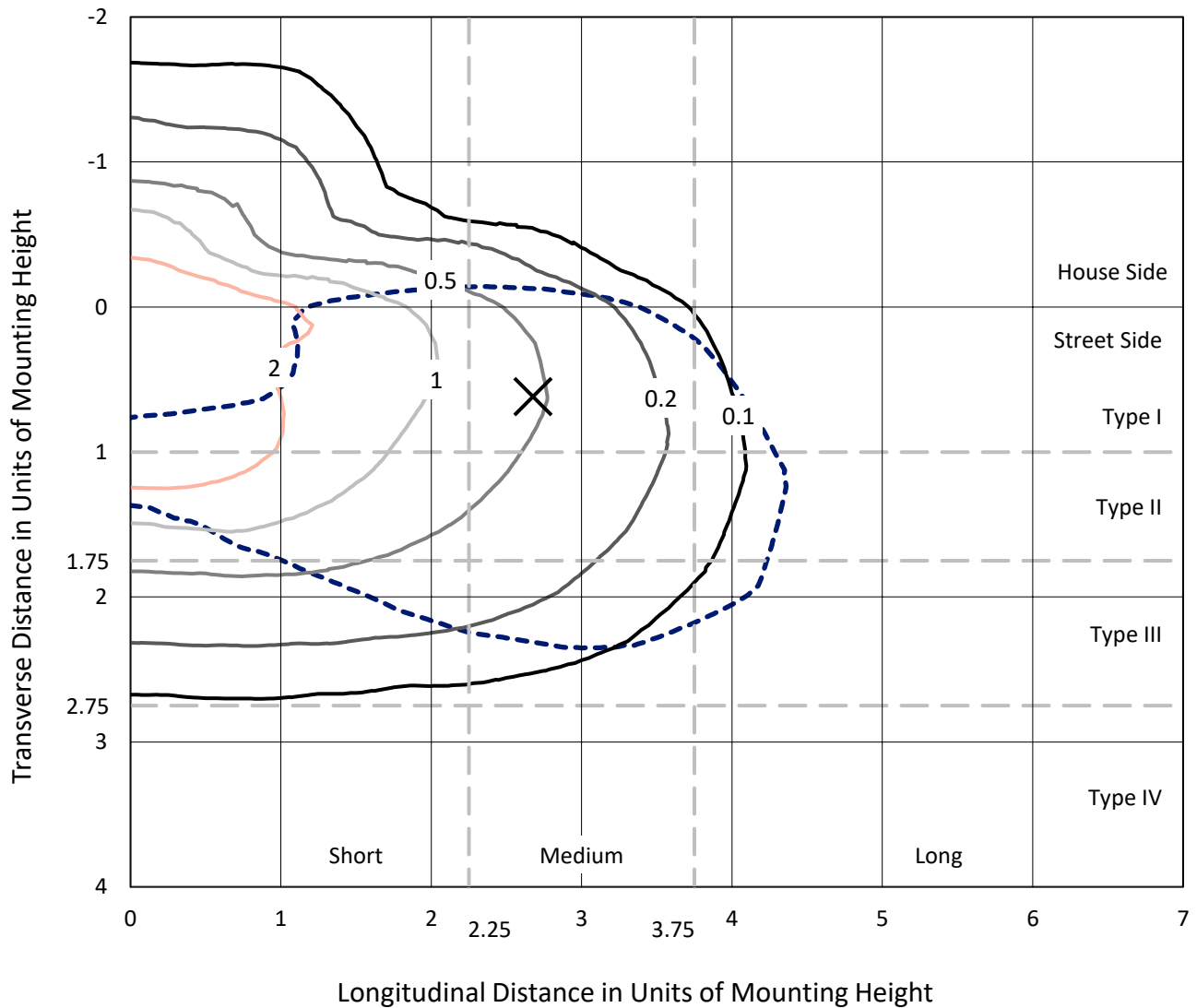
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

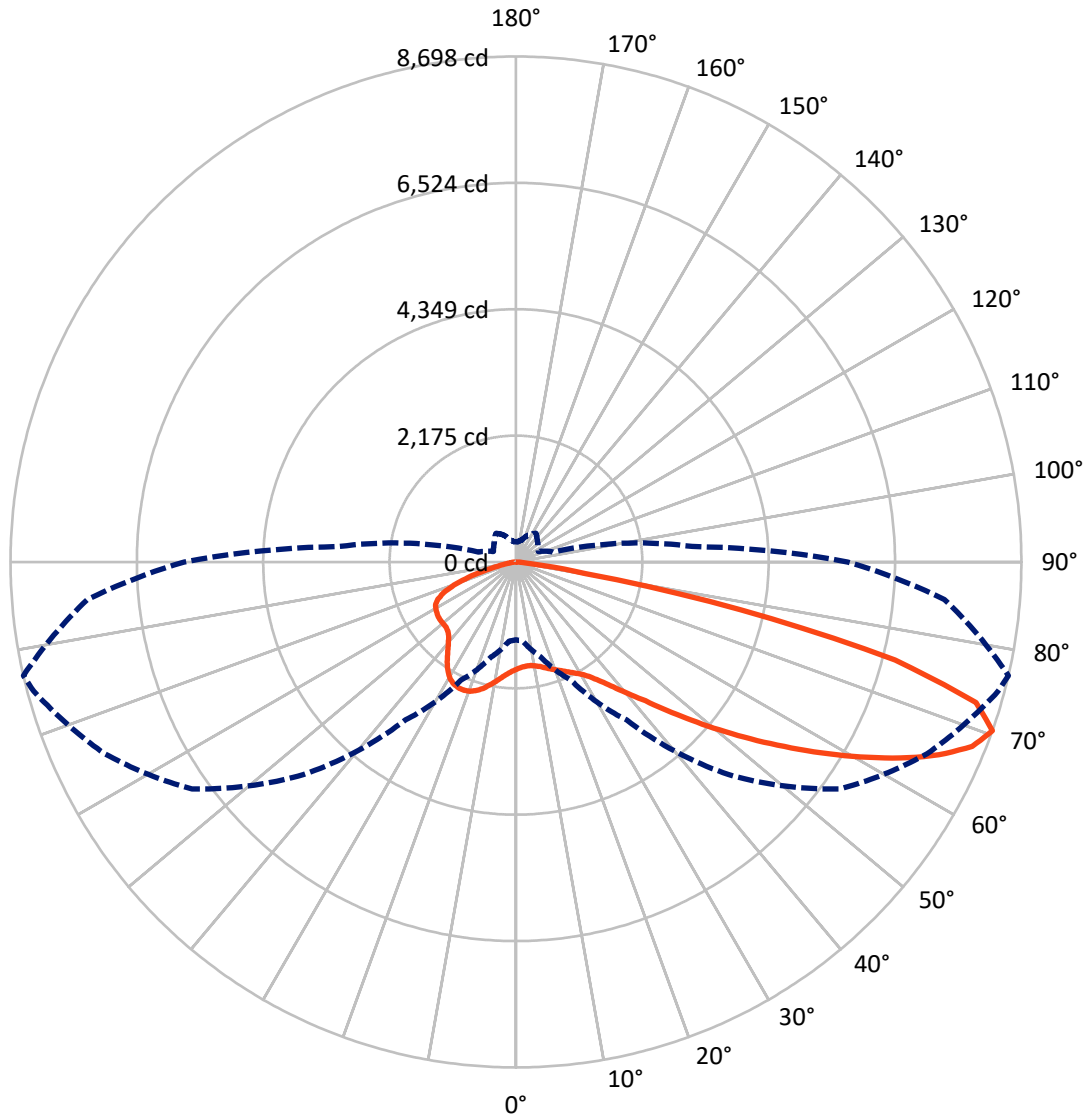
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type III - Medium - N/A

REPORT NUMBER: P947935
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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2894.1	0.0	2894.1
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	10321.9	0.0	10321.9
	% Fixture	78.1	0.0	78.1
Total	Lumens	13216.0	0.0	13216.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.8	1.3
10°-20°	507.5	3.8
20°-30°	867.9	6.6
30°-40°	1395.7	10.6
40°-50°	2179.0	16.5
50°-60°	2910.6	22.0
60°-70°	3102.3	23.5
70°-80°	1909.8	14.5
80°-90°	167.3	1.3
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°	13216.0	100.0
0°-180°	13216.0	100.0

Coefficient of Utilization



REPORT NUMBER: P947935

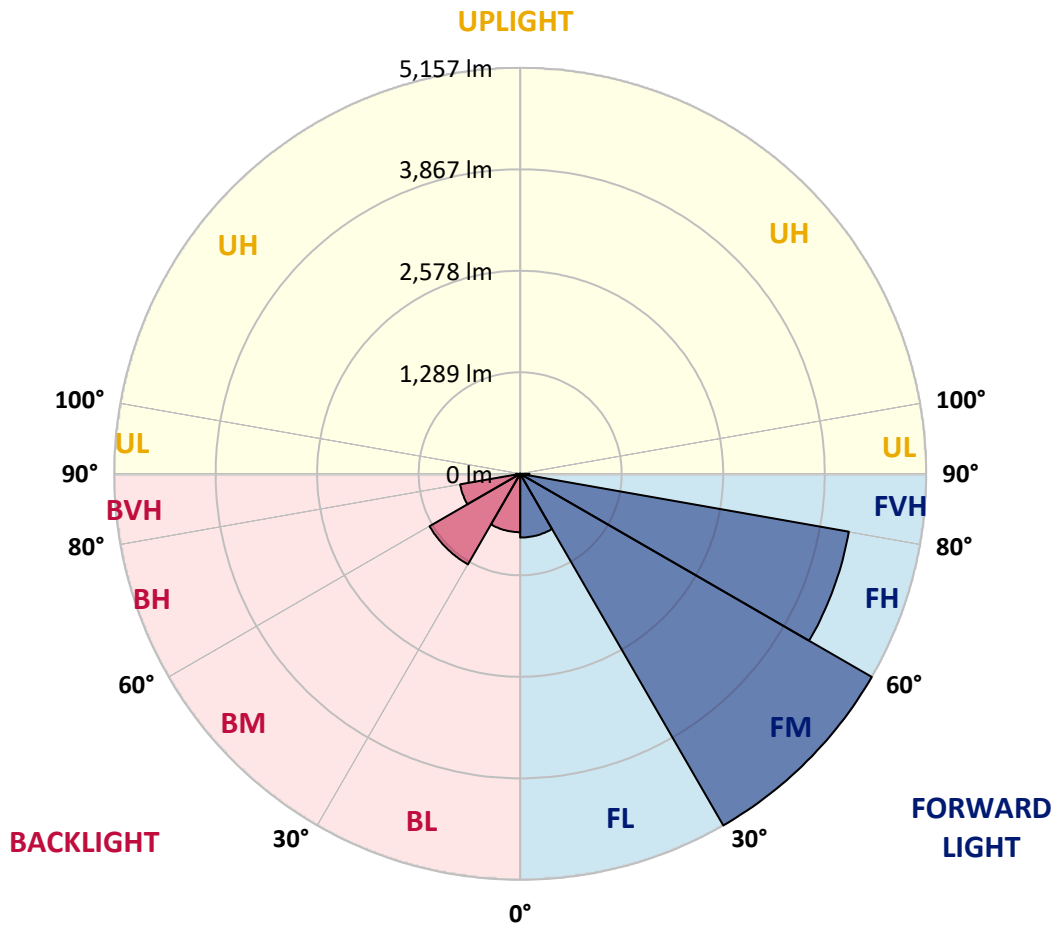
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	809.7	6.1			
FM (30°-60°)	5156.6	39.0			
FH (60°-80°)	4238.6	32.1			G2/5000
FVH (80°-90°)	117.0	0.9			G2/225
BL (0°-30°)	741.6	5.6	B2/1000		
BM (30°-60°)	1328.7	10.1	B2/2500		
BH (60°-80°)	773.5	5.9	B2/1000		G2/1000
BVH (80°-90°)	50.3	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Medium



REPORT NUMBER: P947935

CATALOG NUMBER: GALN-SB3A-850-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1843.8	1843.8	1843.8	1843.8	1843.8	1843.8	1843.8	1843.8	1843.8	1843.8
2.5°	1699.6	1698.9	1707.7	1710.4	1726.7	1738.2	1759.8	1782.8	1812.6	1816.0
5°	1601.4	1601.4	1611.6	1622.4	1643.4	1666.4	1699.6	1739.5	1791.0	1799.1
7.5°	1518.2	1523.6	1532.4	1553.4	1577.7	1610.9	1661.7	1718.5	1786.2	1799.1
10°	1451.2	1457.3	1468.1	1485.0	1521.6	1567.6	1633.9	1707.0	1797.7	1818.0
12.5°	1430.2	1436.3	1442.4	1455.2	1489.1	1543.2	1622.4	1712.4	1825.5	1845.8
15°	1478.9	1486.4	1481.6	1478.3	1495.8	1545.3	1627.8	1732.1	1860.0	1889.1
17.5°	1591.3	1594.0	1583.2	1551.4	1548.6	1575.0	1653.6	1759.1	1903.3	1935.1
20°	1772.7	1767.9	1745.6	1682.7	1646.8	1641.4	1697.6	1799.8	1948.0	1981.8
22.5°	2019.1	2013.6	1969.0	1869.5	1789.6	1736.8	1761.2	1852.6	1998.1	2036.0
25°	2326.4	2318.9	2253.2	2117.9	1994.0	1863.4	1847.8	1922.3	2059.7	2094.9
27.5°	2685.1	2679.0	2607.9	2429.2	2250.5	2036.7	1955.4	2004.2	2124.0	2163.9
30°	3070.9	3088.5	2962.6	2770.4	2544.3	2262.7	2100.3	2105.0	2207.2	2243.1
32.5°	3524.4	3554.8	3403.2	3159.6	2850.9	2508.4	2283.0	2245.8	2328.4	2358.2
35°	3973.8	4008.3	3882.4	3613.1	3257.7	2798.1	2473.9	2407.6	2489.5	2522.0
37.5°	4362.3	4408.4	4343.4	4109.2	3692.9	3147.4	2723.0	2597.8	2687.8	2728.4
40°	4668.9	4739.3	4734.6	4588.4	4206.0	3571.1	3039.1	2832.6	2934.2	2978.2
42.5°	4918.0	4978.9	5031.7	5024.3	4741.4	4052.3	3410.7	3137.9	3215.1	3265.8
45°	5089.9	5154.9	5268.6	5391.1	5256.5	4567.4	3836.4	3500.0	3570.4	3646.9
47.5°	5243.6	5317.4	5464.9	5659.2	5693.7	5084.5	4302.8	3921.7	3986.0	4065.2
50°	5257.1	5320.8	5549.5	5825.0	6004.4	5581.3	4803.6	4394.8	4455.1	4539.7
52.5°	4930.2	5030.4	5429.7	5820.3	6147.2	5996.9	5301.1	4886.9	4954.6	5056.1
55°	3826.9	3973.8	5078.4	5638.9	6096.4	6265.6	5774.2	5410.1	5496.7	5603.0
57.5°	3296.3	3360.6	4031.3	5308.6	5864.9	6335.4	6173.6	5938.7	6078.2	6194.6
60°	2962.6	3016.1	3412.7	4794.8	5560.4	6225.0	6482.2	6431.5	6672.4	6811.2
62.5°	2605.2	2656.0	3016.7	4003.6	5170.5	6041.6	6677.2	6886.3	7281.6	7433.2
65°	2250.5	2293.9	2639.7	3364.0	4675.0	5858.2	6778.0	7279.6	7845.4	8002.5
67.5°	1855.3	1891.1	2218.1	2838.1	4072.6	5607.1	6828.1	7588.9	8336.1	8470.8
70°	1338.8	1366.6	1704.3	2244.5	3316.6	5175.2	6807.8	7808.2	8590.6	8698.3
72.5°	632.9	657.9	1054.5	1457.3	2342.6	4334.6	6397.0	7634.2	8332.1	8278.6
75°	337.8	359.4	605.8	799.4	1237.3	2971.4	5234.8	6576.3	6996.6	6736.7
77.5°	228.8	245.7	375.0	479.9	565.2	1410.6	3364.6	4553.2	4380.6	3951.5
80°	181.4	199.0	307.3	324.9	273.4	509.7	1390.3	2107.7	1514.1	1210.9
82.5°	139.4	159.1	258.6	235.5	148.9	209.1	404.8	666.7	387.8	295.1
85°	85.3	106.3	203.1	150.3	83.9	95.4	137.4	185.5	118.4	98.8
87.5°	43.3	60.9	102.9	54.8	37.9	22.3	36.6	36.6	31.1	27.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P947935
 CATALOG NUMBER: GALN-SB3A-850-U-T3R

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1843.8	0°	1843.8	1843.8	1843.8	1843.8	1843.8	1843.8	1843.8	1843.8	1843.8	1843.8
1834.3	2.5°	1850.5	1864.1	1887.1	1908.7	1925.7	1941.9	1958.1	1966.9	1969.6	1980.5
1844.4	5°	1872.2	1897.2	1941.9	1983.9	2010.3	2026.5	2038.0	2044.8	2046.1	2049.5
1872.2	7.5°	1912.1	1952.0	2014.3	2056.3	2075.9	2074.6	2069.8	2052.9	2046.1	2040.0
1912.8	10°	1968.3	2021.1	2097.6	2126.7	2114.5	2082.0	2040.0	1990.6	1967.6	1945.3
1968.3	12.5°	2038.0	2105.0	2180.1	2178.8	2118.6	2035.3	1937.8	1862.0	1814.0	1779.5
2036.7	15°	2122.6	2199.8	2257.3	2211.3	2079.3	1929.7	1786.9	1688.1	1644.8	1606.9
2105.7	17.5°	2209.9	2292.5	2318.9	2201.1	1980.5	1773.4	1611.6	1533.8	1491.1	1470.8
2180.1	20°	2295.2	2377.1	2355.5	2142.9	1830.2	1596.0	1451.9	1409.2	1400.4	1405.2
2252.6	22.5°	2385.2	2458.3	2362.9	2030.6	1638.7	1414.6	1335.4	1336.8	1356.4	1370.6
2328.4	25°	2477.3	2526.7	2343.3	1868.1	1432.9	1281.3	1261.7	1283.3	1321.9	1349.6
2413.7	27.5°	2566.0	2587.6	2300.6	1667.1	1256.2	1185.8	1189.2	1233.9	1292.1	1330.7
2517.2	30°	2666.1	2641.8	2218.7	1441.0	1133.7	1104.0	1132.4	1184.5	1242.7	1277.2
2647.9	32.5°	2779.2	2688.5	2088.8	1231.9	1047.1	1038.3	1085.0	1118.8	1144.6	1154.7
2821.1	35°	2920.0	2754.1	1922.3	1085.0	969.3	990.2	1034.9	1018.0	1007.8	1002.4
3054.0	37.5°	3102.7	2842.8	1727.3	989.6	906.3	955.7	974.0	921.2	881.3	861.6
3336.2	40°	3322.7	2972.7	1539.8	915.8	866.4	925.9	894.1	830.5	779.7	752.0
3653.7	42.5°	3567.0	3108.8	1382.1	860.3	844.0	901.6	835.2	759.4	677.5	668.7
4032.0	45°	3823.6	3248.9	1274.5	817.6	833.2	880.6	801.4	678.9	620.7	656.5
4411.7	47.5°	4080.1	3377.5	1209.5	785.8	827.8	856.9	771.6	634.2	592.9	645.0
4818.5	50°	4365.7	3492.6	1180.4	762.8	821.7	847.4	726.9	622.7	563.8	598.3
5239.5	52.5°	4649.3	3581.9	1158.8	739.8	812.9	840.0	705.3	609.2	528.6	530.7
5663.2	55°	4932.2	3640.1	1135.1	709.3	793.3	823.7	703.3	594.3	502.2	492.8
6111.3	57.5°	5234.1	3673.3	1106.0	675.5	759.4	782.4	701.2	582.8	494.1	478.5
6569.6	60°	5541.4	3722.0	1068.1	634.2	714.1	733.0	696.5	578.7	489.4	463.0
7001.4	62.5°	5816.9	3738.9	1022.7	595.0	655.9	684.3	686.3	575.3	476.5	431.2
7360.1	65°	5997.6	3665.8	943.5	550.3	592.9	634.2	666.7	563.8	453.5	408.1
7537.5	67.5°	5990.2	3457.4	819.7	492.8	532.0	578.7	638.3	544.2	425.7	379.7
7403.4	70°	5711.3	3045.8	662.6	425.7	465.0	519.1	601.7	515.1	392.6	348.6
6583.1	72.5°	4898.4	2383.9	481.2	347.2	387.2	457.6	554.3	479.9	358.7	320.8
4865.2	75°	3499.3	1508.7	326.2	266.7	301.2	387.8	495.5	438.6	327.6	322.2
2436.7	77.5°	1787.6	720.9	215.9	194.9	209.8	305.9	416.3	391.9	332.3	266.0
693.1	80°	581.4	266.0	136.0	132.7	139.4	203.7	322.2	321.5	251.8	180.7
167.9	82.5°	185.5	114.4	88.7	85.3	81.9	127.9	224.7	254.5	169.9	114.4
60.2	85°	73.8	68.4	52.1	48.1	34.5	60.2	117.8	169.2	126.6	82.6
15.6	87.5°	27.1	27.1	14.2	10.2	7.4	20.3	31.8	50.8	72.4	42.6
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>
1843.8
1986.6
2054.9
2041.4
1938.5
1771.3
1602.8
1476.9
1403.1
1374.0
1357.1
1340.2
1285.3
1160.1
1007.8
866.4
754.0
677.5
675.5
669.4
624.1
544.9
499.5
480.6
465.0
431.2
408.1
381.7
352.6
318.8
303.9
236.9
159.7
113.7
84.6
42.0
0.0

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