

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: P941727

Luminaire Tested: **GALN-SB5B-927-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941727
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-SB5B-927-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17326 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

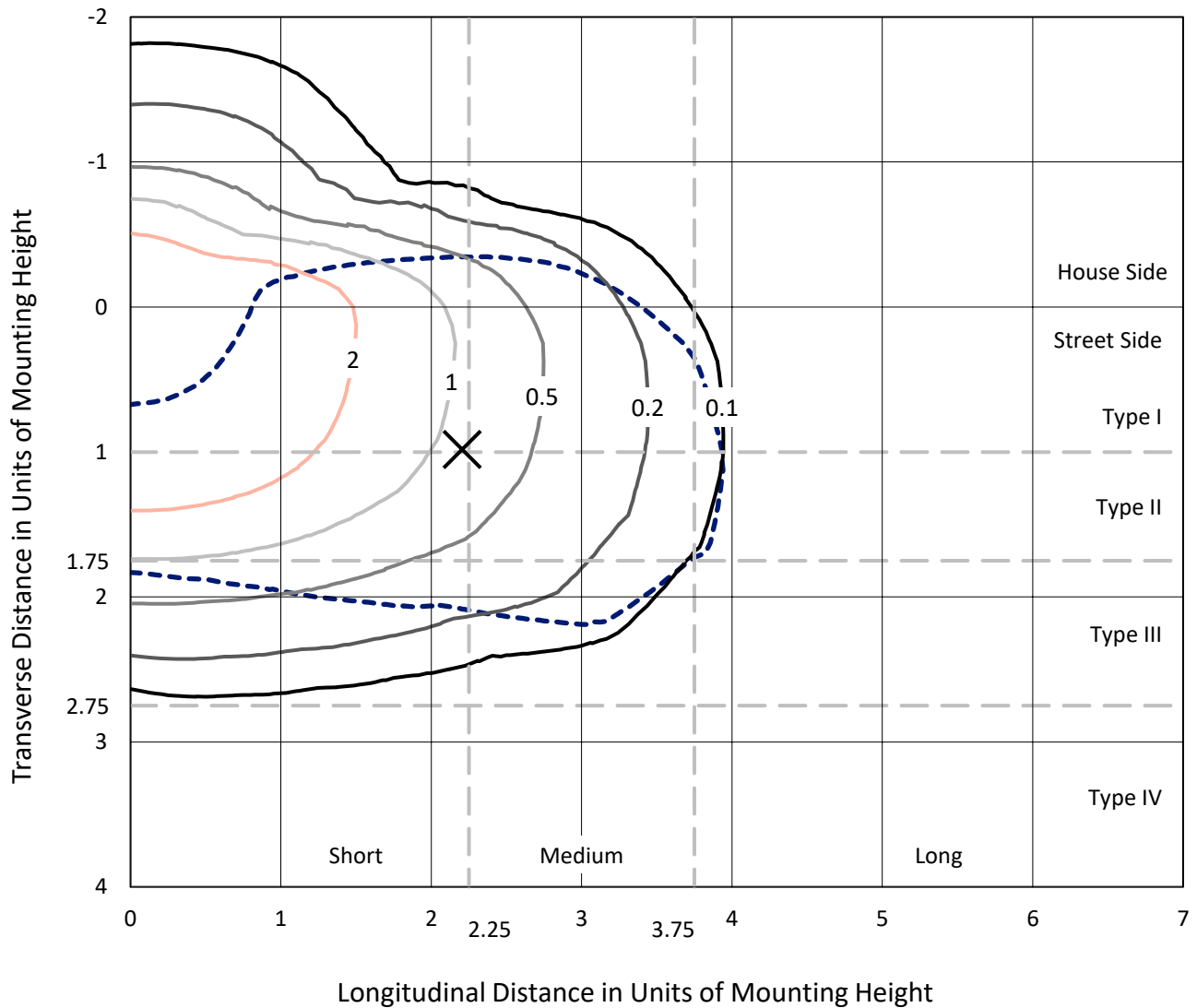
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

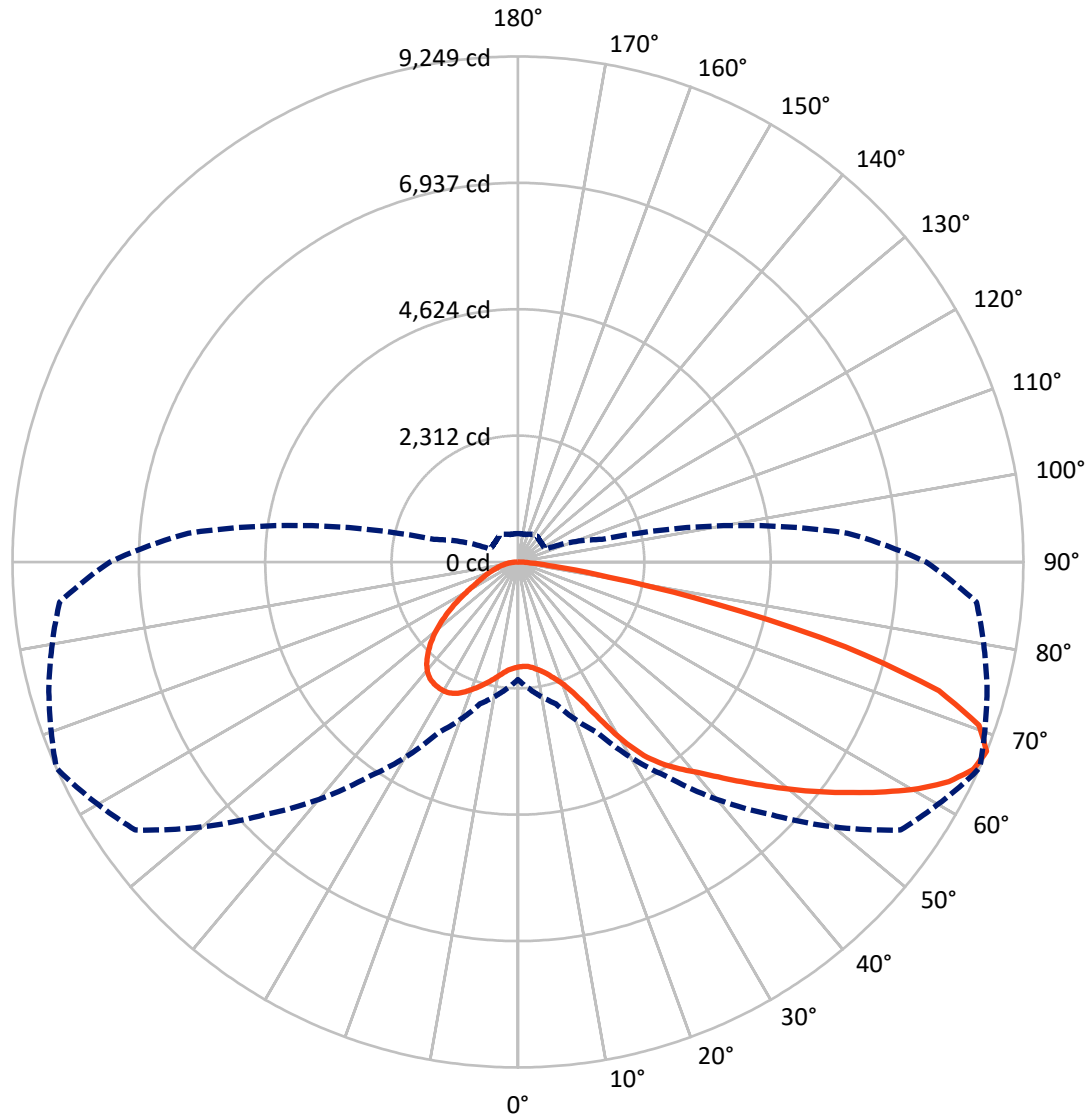
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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	4308.1	0.0	4308.1
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	13017.9	0.0	13017.9
	% Fixture	75.1	0.0	75.1
Total	Lumens	17326.0	0.0	17326.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.5	1.1
10°-20°	629.5	3.6
20°-30°	1213.3	7.0
30°-40°	2127.3	12.3
40°-50°	3162.6	18.3
50°-60°	4009.0	23.1
60°-70°	3922.7	22.6
70°-80°	1871.1	10.8
80°-90°	200.0	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°	17326.0	100.0
0°-180°	17326.0	100.0

Coefficient of Utilization



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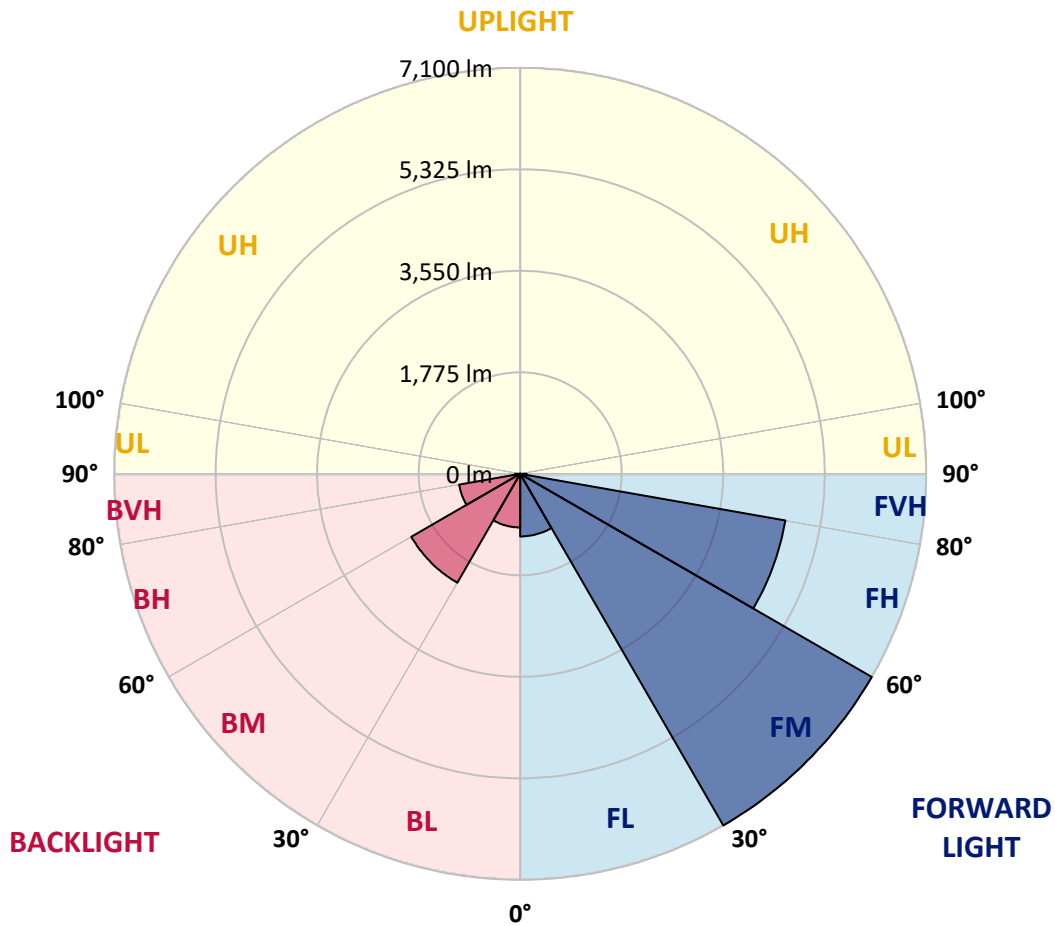
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1094.8	6.3			
FM (30°-60°)	7100.0	41.0			
FH (60°-80°)	4709.7	27.2			G2/5000
FVH (80°-90°)	113.4	0.7			G2/225
BL (0°-30°)	938.5	5.4	B2/1000		
BM (30°-60°)	2198.9	12.7	B2/2500		
BH (60°-80°)	1084.1	6.3	B3/2500		G3/2500
BVH (80°-90°)	86.6	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°	1921.7	1921.7	1921.7	1921.7	1921.7	1921.7	1921.7	1921.7	1921.7	1921.7
2.5°	1901.7	1912.6	1909.8	1905.3	1904.4	1906.2	1908.9	1911.7	1910.8	1915.3
5°	1896.2	1907.1	1906.2	1906.2	1909.8	1917.1	1921.7	1926.2	1921.7	1927.1
7.5°	1899.8	1908.0	1911.7	1915.3	1924.4	1938.1	1949.0	1959.0	1953.5	1959.9
10°	1946.3	1952.6	1956.3	1956.3	1962.6	1978.1	1989.0	2007.3	2002.7	2012.7
12.5°	2030.9	2037.3	2037.3	2033.7	2038.2	2048.2	2051.9	2071.9	2063.7	2080.1
15°	2134.7	2147.4	2137.4	2131.1	2132.9	2142.9	2142.0	2157.5	2149.3	2162.9
17.5°	2249.4	2265.8	2249.4	2248.5	2244.8	2255.8	2256.7	2270.3	2255.8	2265.8
20°	2385.0	2407.8	2394.1	2398.7	2390.5	2395.0	2399.6	2419.6	2396.9	2404.2
22.5°	2576.2	2603.5	2588.9	2606.2	2600.8	2597.1	2596.2	2631.7	2596.2	2599.0
25°	2854.8	2887.5	2862.0	2885.7	2885.7	2897.5	2911.2	2956.7	2897.5	2880.2
27.5°	3266.2	3299.0	3248.9	3263.5	3258.9	3288.1	3273.5	3386.4	3322.7	3294.4
30°	3761.4	3819.7	3725.0	3721.4	3716.8	3763.3	3784.2	3858.8	3794.2	3766.0
32.5°	4296.7	4357.7	4244.8	4212.0	4194.7	4223.0	4205.7	4265.8	4221.1	4177.5
35°	4862.9	4923.0	4815.6	4751.9	4682.7	4623.5	4561.6	4577.1	4535.2	4468.8
37.5°	5398.2	5508.3	5394.5	5326.3	5198.8	5083.2	4910.3	4838.3	4799.2	4738.2
40°	5943.5	6006.3	5919.8	5861.5	5723.2	5542.0	5265.3	5113.3	5060.5	5001.3
42.5°	6344.9	6405.0	6358.6	6318.5	6210.2	5999.9	5642.2	5451.9	5375.4	5309.0
45°	6663.5	6708.1	6679.0	6693.6	6647.1	6443.2	6032.7	5815.1	5735.9	5654.9
47.5°	6791.9	6839.2	6885.6	6972.1	7051.3	6901.1	6452.3	6208.4	6124.6	6041.8
50°	6777.3	6825.6	6960.3	7144.2	7390.0	7339.9	6894.8	6627.1	6549.7	6455.1
52.5°	6660.8	6715.4	6888.4	7194.2	7585.7	7668.5	7345.4	7059.5	6986.7	6873.8
55°	6354.9	6387.7	6647.1	7080.5	7632.1	7897.9	7786.9	7520.1	7447.3	7289.8
57.5°	5787.8	5835.1	6212.9	6773.7	7515.6	8053.6	8174.7	8004.4	7934.3	7707.7
60°	5047.7	5123.3	5555.7	6258.4	7218.8	8052.7	8527.0	8480.5	8422.3	8119.1
62.5°	4210.2	4297.6	4713.6	5530.2	6699.9	7824.2	8747.3	8879.2	8849.2	8498.7
65°	3233.5	3293.5	3707.7	4588.0	5892.5	7333.5	8772.7	9151.4	9156.9	8787.3
67.5°	2152.9	2325.9	2685.4	3442.8	4811.0	6531.5	8548.8	9196.0	9248.8	8886.5
70°	1050.5	1278.1	1630.4	2237.6	3442.8	5301.7	7963.5	8830.1	8947.5	8597.0
72.5°	436.0	509.8	701.9	1104.2	1976.3	3577.6	6787.3	7837.8	8055.4	7617.5
75°	294.0	318.6	401.5	566.2	900.3	1764.2	4894.8	5844.2	6194.7	5753.2
77.5°	226.7	242.1	292.2	396.0	535.3	667.3	2619.9	3522.0	3703.2	3428.3
80°	178.4	190.3	218.5	288.6	379.6	356.8	893.0	1595.8	1700.5	1426.5
82.5°	154.8	159.3	156.6	195.7	252.2	208.5	293.1	589.0	650.0	471.5
85°	112.0	124.7	130.2	121.1	133.8	105.6	120.2	208.5	229.4	204.8
87.5°	45.5	67.4	82.8	78.3	49.2	30.0	37.3	61.0	70.1	76.5
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°
1921.7	0°	1921.7	1921.7	1921.7	1921.7	1921.7	1921.7	1921.7	1921.7	1921.7	1921.7
1922.6	2.5°	1923.5	1929.9	1934.4	1939.9	1943.5	1949.0	1959.9	1966.3	1967.2	1971.7
1937.2	5°	1940.8	1949.9	1959.9	1974.5	1990.9	2004.5	2025.5	2040.0	2045.5	2050.0
1972.7	7.5°	1978.1	1990.9	2009.1	2034.6	2058.2	2076.4	2101.9	2119.2	2136.5	2142.9
2029.1	10°	2033.7	2051.9	2078.3	2112.8	2138.3	2162.0	2188.4	2203.0	2220.3	2227.5
2096.5	12.5°	2102.8	2122.0	2156.5	2204.8	2228.5	2244.8	2253.9	2250.3	2253.9	2260.3
2177.5	15°	2182.0	2203.0	2242.1	2294.0	2310.4	2295.8	2275.8	2257.6	2254.9	2256.7
2275.8	17.5°	2275.8	2291.3	2336.8	2380.5	2368.6	2308.6	2264.9	2235.7	2221.2	2216.6
2401.4	20°	2406.9	2406.9	2444.2	2471.5	2392.3	2290.4	2222.1	2174.8	2144.7	2132.0
2572.6	22.5°	2566.2	2551.6	2575.3	2556.2	2387.8	2239.4	2144.7	2062.8	2017.3	1999.1
2812.0	25°	2768.3	2751.0	2744.6	2626.3	2355.0	2158.4	2004.5	1905.3	1865.2	1855.2
3157.0	27.5°	3073.2	3029.5	2946.7	2664.5	2294.9	2030.9	1840.7	1748.7	1726.0	1726.9
3600.3	30°	3479.2	3391.8	3188.8	2670.9	2196.6	1850.7	1673.2	1607.6	1596.7	1601.3
3972.6	32.5°	3855.2	3772.4	3436.5	2641.7	2045.5	1674.1	1523.0	1479.3	1462.9	1468.3
4256.6	35°	4150.1	4127.4	3665.9	2600.8	1859.8	1508.4	1388.2	1350.9	1319.1	1311.8
4524.3	37.5°	4428.7	4419.6	3837.9	2543.4	1675.9	1391.0	1279.9	1230.8	1184.3	1158.8
4820.1	40°	4734.6	4725.5	3950.8	2455.1	1512.9	1289.0	1182.5	1117.9	1060.5	1014.1
5155.1	42.5°	5078.7	5025.0	4004.5	2328.6	1374.6	1202.5	1103.3	1015.9	940.4	897.6
5533.8	45°	5454.6	5333.6	4003.6	2167.5	1258.1	1123.3	1018.6	894.8	824.7	784.7
5922.5	47.5°	5853.3	5628.5	3954.4	1989.0	1145.2	1035.9	887.6	792.9	746.5	721.9
6344.9	50°	6264.8	5904.3	3870.7	1784.2	1029.6	936.7	805.6	741.0	705.5	682.7
6763.7	52.5°	6651.7	6154.7	3769.6	1552.1	912.1	840.2	769.2	719.2	681.8	656.3
7169.7	55°	7011.3	6370.4	3626.7	1314.5	816.6	775.6	751.9	710.0	667.3	637.2
7582.0	57.5°	7330.8	6510.6	3380.0	1091.5	748.3	731.0	733.7	694.6	645.4	619.9
7988.0	60°	7596.6	6613.5	3015.0	884.8	692.8	687.3	705.5	665.4	608.1	579.0
8331.2	62.5°	7755.9	6611.6	2567.1	724.6	645.4	647.2	668.2	629.0	570.8	543.5
8510.6	65°	7742.3	6449.6	2075.5	619.9	599.9	601.7	629.0	589.0	539.8	523.4
8420.4	67.5°	7468.3	6054.5	1592.1	551.7	549.8	558.0	589.9	561.7	520.7	518.9
7883.4	70°	6726.3	5234.3	1147.0	497.0	497.9	509.8	551.7	544.4	510.7	514.3
6628.0	72.5°	5393.6	3990.8	770.1	439.7	440.6	459.7	515.2	530.7	500.7	548.9
4702.7	75°	3592.1	2488.8	495.2	378.7	379.6	404.2	483.4	504.3	473.4	547.1
2446.9	77.5°	1726.0	1118.8	358.7	318.6	318.6	341.4	417.8	451.5	403.3	425.1
786.5	80°	596.3	420.6	282.2	256.7	251.2	266.7	352.3	391.4	347.7	320.4
256.7	82.5°	234.9	218.5	226.7	199.4	181.2	191.2	274.0	323.2	255.8	231.2
144.7	85°	134.7	142.0	160.2	132.0	104.7	117.4	201.2	232.1	193.0	170.2
47.3	87.5°	36.4	50.1	73.7	68.3	47.3	50.1	95.6	128.4	111.1	85.6
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>
1921.7
1970.8
2049.1
2143.8
2231.2
2262.1
2263.1
2223.0
2129.2
1996.3
1857.0
1729.6
1616.7
1475.6
1317.2
1159.7
1018.6
900.3
782.9
716.4
674.5
645.4
625.4
603.5
566.2
535.3
522.5
521.6
513.4
556.2
551.7
389.6
300.4
230.3
173.9
88.3
0.0

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