

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: P941084

Luminaire Tested: **GALN-SB4B-950-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941084
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4B-950-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11464 lumens
Efficiency: N/A
Efficacy: 78.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

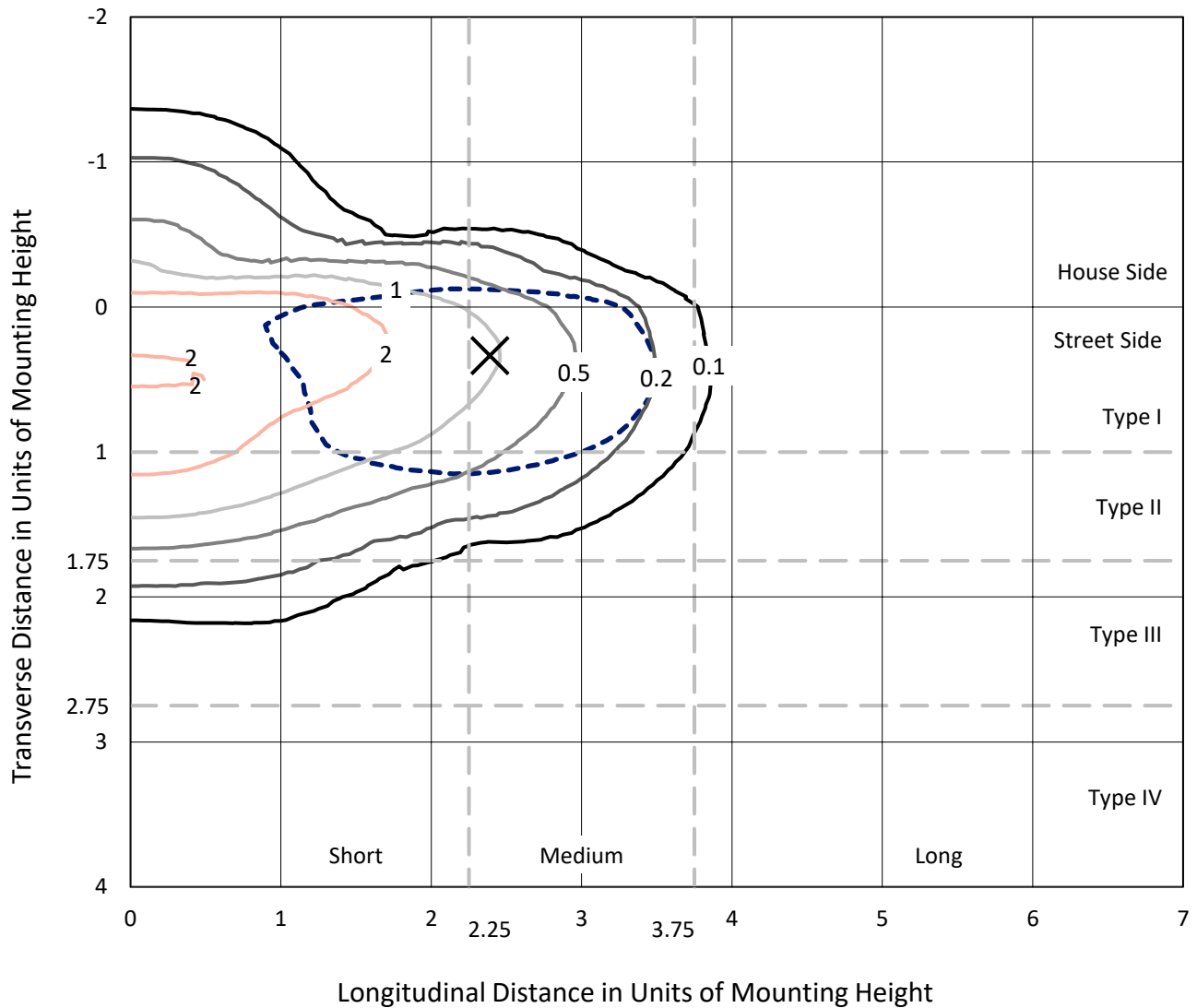
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

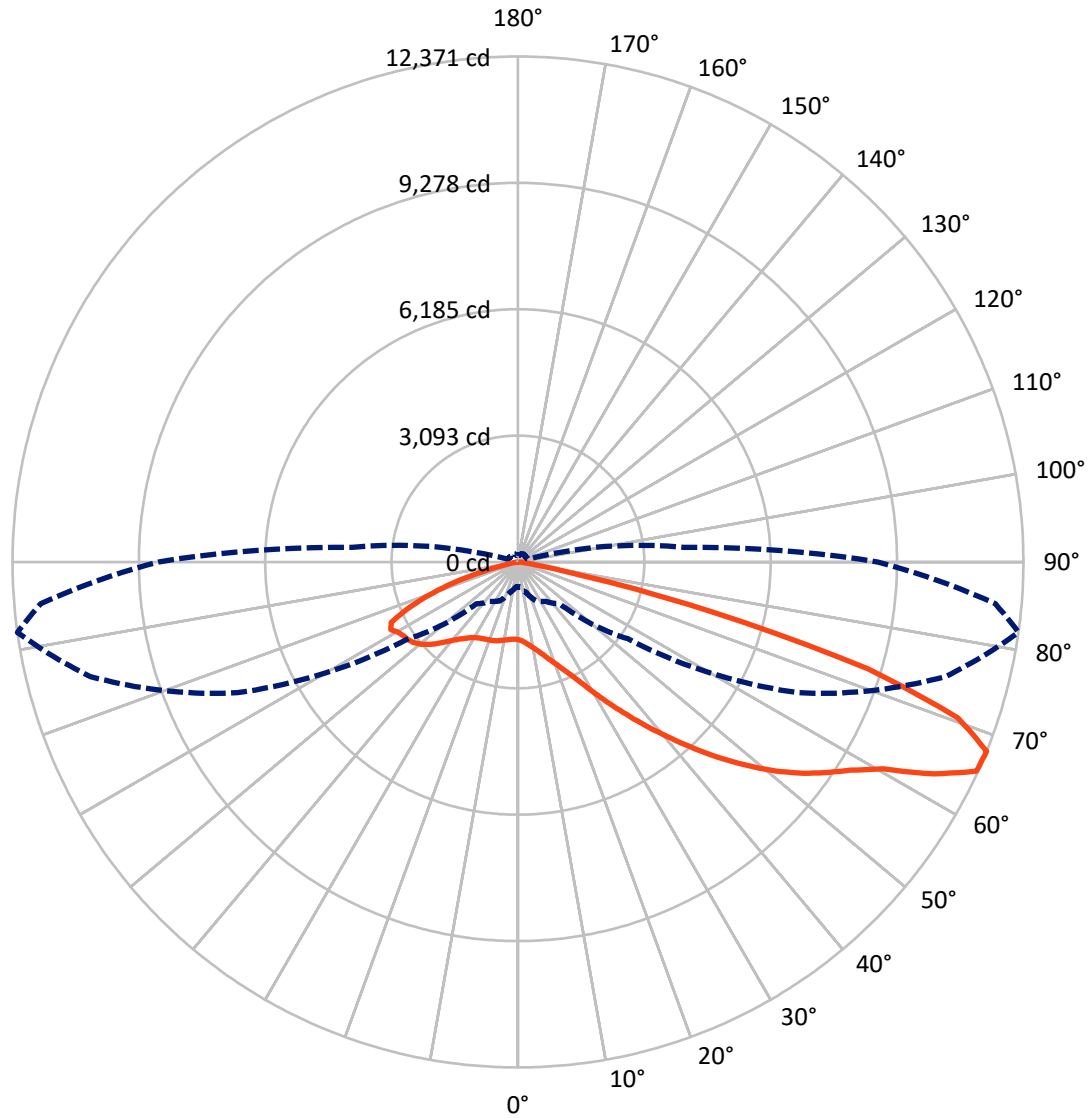
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2076.6	0.0	2076.6
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	9387.4	0.0	9387.4
	% Fixture	81.9	0.0	81.9
Total	Lumens	11464.0	0.0	11464.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.2	1.5
10°-20°	439.7	3.8
20°-30°	704.3	6.1
30°-40°	1245.3	10.9
40°-50°	2181.9	19.0
50°-60°	2910.1	25.4
60°-70°	2709.1	23.6
70°-80°	1039.8	9.1
80°-90°	64.6	0.6
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°	11464.0	100.0
0°-180°	11464.0	100.0

Coefficient of Utilization



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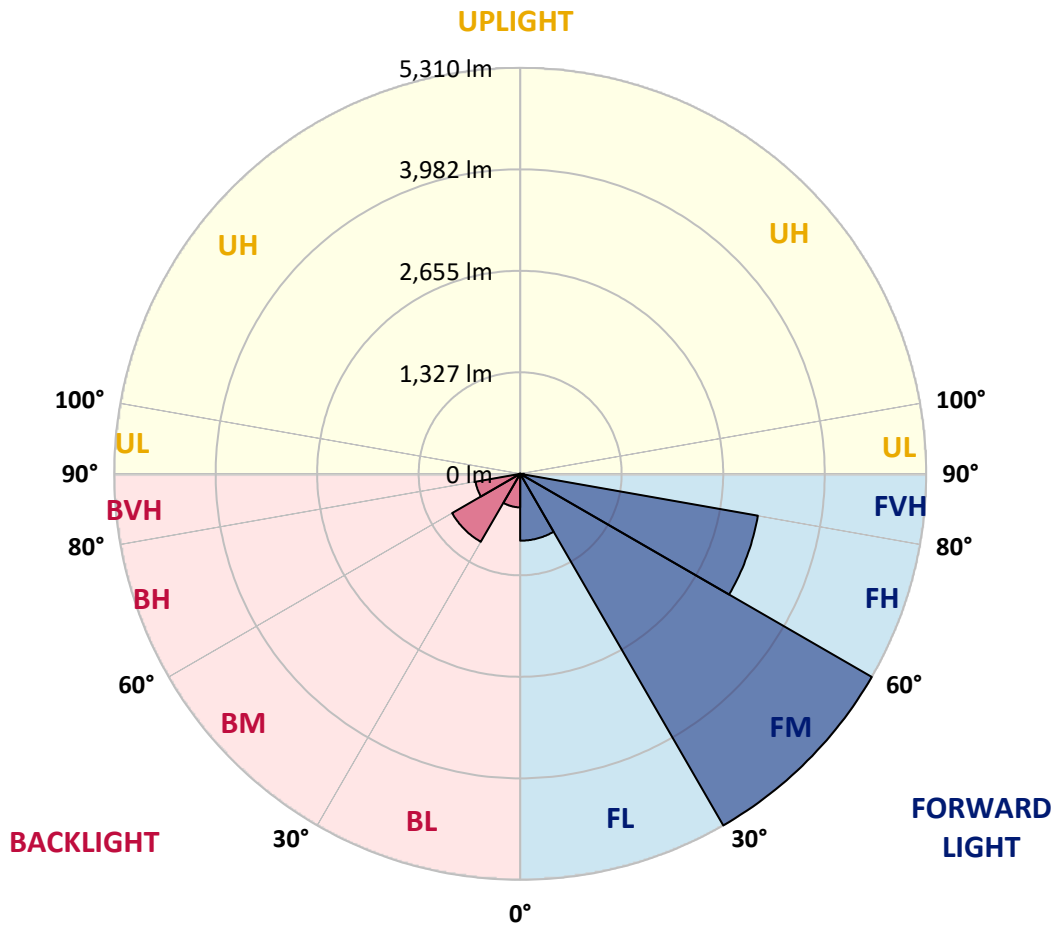
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	874.6	7.6			
FM (30°-60°)	5309.7	46.3			
FH (60°-80°)	3156.2	27.5			G2/5000
FVH (80°-90°)	47.0	0.4			G1/100
BL (0°-30°)	438.6	3.8	B1/500		
BM (30°-60°)	1027.7	9.0	B2/2500		
BH (60°-80°)	592.7	5.2	B2/1000		G2/1000
BVH (80°-90°)	17.6	0.2			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	1899.2	1899.2	1899.2	1899.2	1899.2	1899.2	1899.2	1899.2	1899.2	1899.2
2.5°	2007.3	2018.9	2012.3	2009.0	2003.2	1994.9	1988.3	1967.7	1946.2	1932.2
5°	2047.8	2059.3	2058.5	2061.8	2065.9	2068.4	2066.7	2043.6	2013.1	1989.2
7.5°	2013.1	2026.3	2037.0	2053.5	2082.4	2113.0	2127.8	2122.9	2091.5	2058.5
10°	1914.9	1928.9	1954.5	1993.3	2054.4	2120.4	2175.7	2201.3	2181.5	2145.2
12.5°	1734.9	1749.0	1799.3	1883.5	1985.9	2100.6	2206.2	2274.7	2279.7	2243.4
15°	1532.7	1546.8	1600.4	1706.1	1862.1	2046.1	2222.7	2352.3	2396.1	2364.7
17.5°	1407.3	1419.7	1460.1	1545.1	1707.7	1937.2	2217.0	2434.9	2534.7	2510.0
20°	1369.3	1380.0	1399.0	1458.4	1593.8	1824.1	2179.0	2512.5	2684.1	2670.1
22.5°	1409.7	1419.7	1425.4	1451.8	1536.9	1749.8	2131.1	2591.7	2857.5	2859.1
25°	1503.0	1512.9	1506.3	1522.8	1560.0	1726.7	2113.0	2685.0	3075.4	3093.5
27.5°	1656.5	1657.4	1641.7	1640.9	1646.6	1761.4	2132.0	2784.8	3350.2	3384.1
30°	1964.4	1952.0	1891.8	1826.6	1796.8	1865.4	2184.8	2902.9	3674.6	3734.8
32.5°	2439.0	2420.8	2310.2	2154.2	1997.4	2032.9	2279.7	3037.4	4027.8	4136.8
35°	2954.0	2949.1	2833.5	2601.6	2327.6	2271.4	2434.0	3214.0	4413.3	4586.6
37.5°	3432.8	3430.3	3364.2	3091.0	2757.6	2604.1	2681.7	3445.1	4826.0	5076.9
40°	3870.2	3877.6	3811.6	3567.3	3231.4	3030.8	3018.4	3730.7	5284.9	5610.9
42.5°	4248.2	4256.5	4189.6	4008.9	3699.3	3502.9	3431.9	4080.7	5733.1	6184.6
45°	4504.9	4556.1	4546.2	4401.7	4179.7	3975.9	3928.8	4519.8	6244.0	6792.9
47.5°	4577.6	4624.6	4698.9	4718.7	4583.3	4382.8	4438.9	5048.8	6760.7	7402.0
50°	4398.4	4442.2	4596.5	4802.1	4896.1	4834.2	4934.9	5615.9	7289.7	8009.5
52.5°	4045.2	4089.8	4284.5	4609.7	4993.5	5188.3	5432.6	6174.7	7802.3	8584.8
55°	3534.3	3581.3	3831.4	4199.5	4807.8	5334.4	5847.8	6732.6	8271.9	9102.3
57.5°	2839.3	2874.0	3134.0	3649.0	4340.7	5189.2	6154.0	7341.7	8714.4	9610.7
60°	1850.5	1881.0	2183.1	2757.6	3566.5	4703.8	6215.1	8021.0	9302.0	10271.8
62.5°	1230.6	1251.3	1430.4	1852.2	2511.6	3772.0	5857.7	8563.3	10163.7	11422.4
65°	844.4	865.0	1044.1	1337.9	1622.7	2495.1	4830.1	8491.5	10944.5	12336.1
67.5°	602.5	619.9	771.7	1049.1	1174.5	1449.4	3274.3	7573.7	10832.3	12370.8
70°	431.7	441.6	567.0	817.1	933.5	870.8	1820.8	5792.5	9484.4	11423.2
72.5°	302.1	305.4	393.7	622.3	751.9	635.5	866.6	3861.9	7173.4	8966.1
75°	204.7	208.8	264.9	456.4	603.4	485.3	458.9	2070.9	4211.1	4963.0
77.5°	125.5	127.1	170.9	312.0	451.5	369.8	295.5	877.4	1629.3	1599.6
80°	71.0	71.0	109.0	194.0	307.9	238.5	207.2	373.1	515.9	453.1
82.5°	39.6	40.4	79.2	120.5	203.9	141.1	113.9	172.5	222.9	197.3
85°	16.5	18.2	48.7	57.0	97.4	70.2	46.2	72.6	82.5	73.5
87.5°	1.7	2.5	14.9	10.7	11.6	14.0	6.6	14.0	11.6	11.6
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°
1899.2	0°	1899.2	1899.2	1899.2	1899.2	1899.2	1899.2	1899.2	1899.2	1899.2	1899.2
1927.3	2.5°	1911.6	1899.2	1867.8	1831.5	1783.6	1760.5	1729.2	1707.7	1689.6	1691.2
1975.1	5°	1948.7	1917.4	1847.2	1759.7	1650.8	1573.2	1490.6	1433.7	1387.5	1377.6
2041.2	7.5°	1999.9	1950.4	1827.4	1669.7	1485.7	1346.2	1221.6	1141.5	1084.5	1066.4
2121.2	10°	2065.9	1994.1	1801.8	1556.7	1291.7	1114.3	980.6	917.8	879.0	865.8
2215.3	12.5°	2142.7	2044.5	1768.0	1418.8	1092.0	921.1	836.1	804.7	792.4	788.2
2330.9	15°	2239.3	2107.2	1716.8	1255.4	922.8	803.1	766.8	762.7	764.3	762.7
2469.5	17.5°	2354.0	2175.7	1633.4	1087.0	808.9	742.8	729.6	732.9	737.1	736.2
2624.7	20°	2479.4	2243.4	1527.0	937.6	731.3	699.9	692.5	695.8	699.1	697.4
2803.8	22.5°	2622.2	2316.0	1408.9	821.3	679.3	660.3	652.0	652.9	652.9	649.6
3030.8	25°	2793.1	2396.1	1285.1	738.7	639.7	624.8	614.9	611.6	606.7	596.7
3306.5	27.5°	2997.0	2481.1	1166.3	680.9	608.3	594.3	582.7	574.5	562.1	545.6
3637.4	30°	3226.4	2584.3	1065.6	644.6	583.5	569.5	556.3	543.9	525.8	505.1
4017.9	32.5°	3496.3	2694.9	992.1	620.7	561.3	546.4	530.7	515.9	496.1	475.4
4445.5	35°	3818.2	2828.6	949.2	604.2	543.9	524.1	506.8	490.3	475.4	457.3
4910.2	37.5°	4167.3	2970.5	936.0	595.9	532.4	501.8	482.0	470.5	468.8	458.1
5412.8	40°	4549.5	3138.9	945.9	591.0	520.0	480.4	458.9	456.4	460.6	441.6
5950.2	42.5°	4953.9	3338.7	962.4	585.2	502.7	458.9	438.3	438.3	435.0	408.6
6518.0	45°	5391.4	3568.9	978.9	571.2	482.0	437.5	421.8	416.0	402.0	376.4
7089.2	47.5°	5832.1	3803.3	991.3	545.6	457.3	419.3	405.3	392.1	371.4	348.3
7649.6	50°	6250.6	4013.8	978.1	507.6	429.2	402.0	387.1	368.9	346.7	331.0
8180.3	52.5°	6624.5	4196.2	921.9	463.0	399.5	383.8	370.6	351.6	333.5	316.9
8659.1	55°	6949.7	4344.0	822.9	420.9	373.1	368.1	354.9	331.0	306.2	292.2
9133.6	57.5°	7261.7	4456.2	699.1	386.3	349.1	350.8	331.0	309.5	286.4	271.5
9773.3	60°	7676.8	4606.4	573.6	354.1	323.5	328.5	307.0	291.4	262.5	243.5
10870.2	62.5°	8340.5	4840.0	455.6	314.5	293.8	295.5	286.4	267.4	232.8	210.5
11683.2	65°	8867.0	4754.2	359.0	271.5	260.0	262.5	262.5	241.8	204.7	179.1
11727.0	67.5°	8807.6	4070.8	286.4	229.5	227.8	229.5	235.2	217.9	181.6	160.9
10833.9	70°	8113.5	3238.0	229.5	190.7	198.1	194.0	210.5	198.9	163.4	142.8
8399.1	72.5°	6620.4	2332.5	175.0	157.6	151.9	158.5	189.8	179.1	136.2	113.1
4448.8	75°	3868.6	1244.7	130.4	124.6	109.8	132.1	168.4	152.7	104.0	83.4
1363.5	77.5°	1259.5	434.1	95.7	91.6	81.7	106.5	143.6	128.8	85.0	66.0
399.5	80°	337.6	131.2	65.2	60.3	52.8	79.2	113.9	102.3	61.1	42.9
171.7	82.5°	135.4	55.3	38.0	33.8	28.9	54.5	90.0	82.5	45.4	27.2
53.6	85°	43.7	18.2	14.0	10.7	13.2	33.8	53.6	56.1	32.2	14.0
8.3	87.5°	5.8	2.5	2.5	3.3	2.5	5.8	16.5	15.7	9.1	1.7
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

180°
1899.2
1674.7
1355.3
1048.2
855.9
785.8
761.8
734.6
696.6
647.9
595.1
543.9
503.5
476.2
455.6
457.3
442.4
408.6
375.5
347.5
328.5
315.3
290.5
269.9
241.0
208.8
176.6
157.6
140.3
110.6
80.9
63.6
42.1
27.2
10.7
0.0
0.0

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