

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: P940824

Luminaire Tested: **GALN-SB4A-827-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940824
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-SB4A-827-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 350mA 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: 11416 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

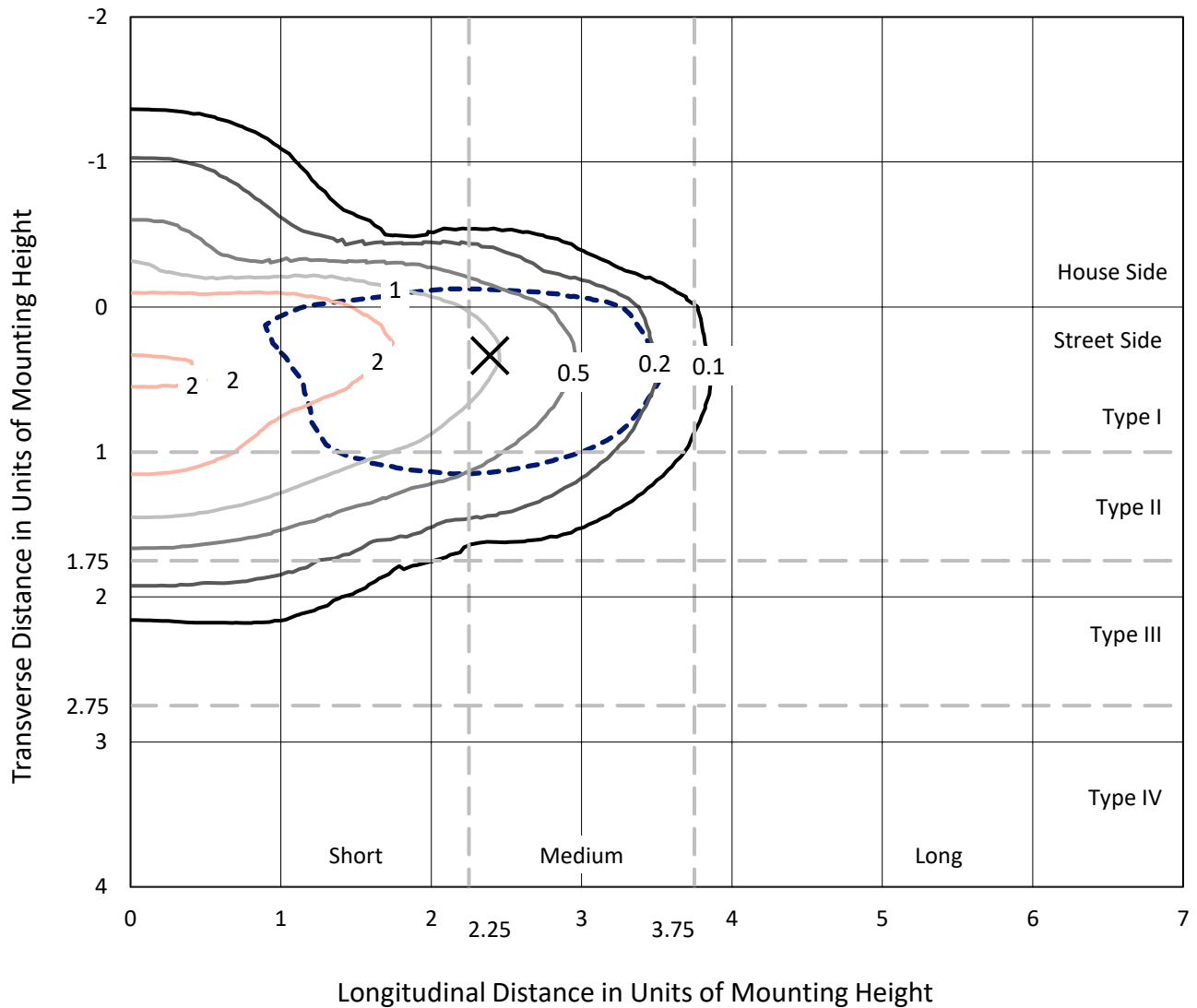
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

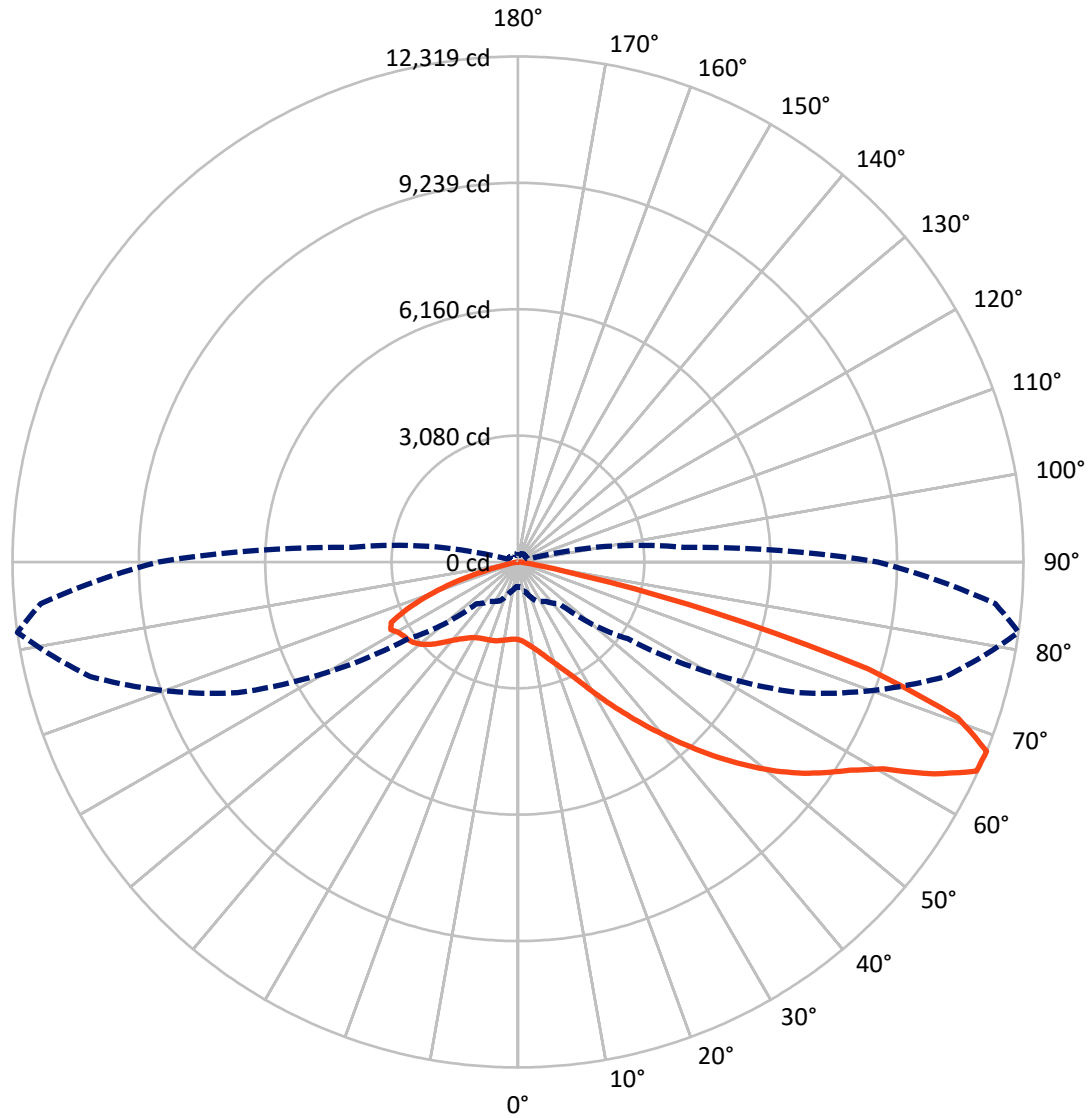
✕ Max cd
 - - - 1/2 Max cd



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	2067.9	0.0	2067.9
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	9348.1	0.0	9348.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	11416.0	0.0	11416.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.5	1.5
10°-20°	437.9	3.8
20°-30°	701.3	6.1
30°-40°	1240.1	10.9
40°-50°	2172.8	19.0
50°-60°	2897.9	25.4
60°-70°	2697.8	23.6
70°-80°	1035.4	9.1
80°-90°	64.3	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°	11416.0	100.0
0°-180°	11416.0	100.0

Coefficient of Utilization



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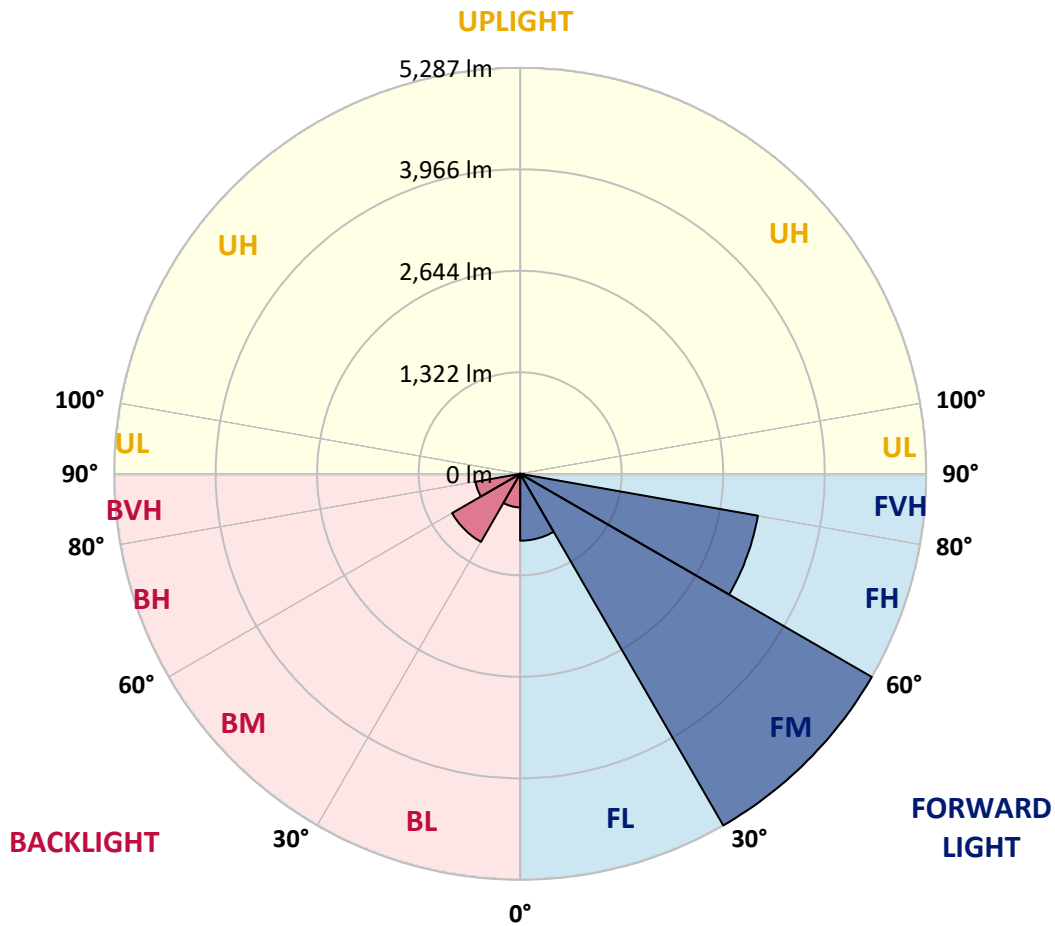
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	870.9	7.6			
FM (30°-60°)	5287.4	46.3			
FH (60°-80°)	3143.0	27.5			G2/5000
FVH (80°-90°)	46.8	0.4			G1/100
BL (0°-30°)	436.7	3.8	B1/500		
BM (30°-60°)	1023.4	9.0	B2/2500		
BH (60°-80°)	590.2	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°	1891.2	1891.2	1891.2	1891.2	1891.2	1891.2	1891.2	1891.2	1891.2	1891.2
2.5°	1998.9	2010.4	2003.8	2000.6	1994.8	1986.6	1980.0	1959.5	1938.1	1924.1
5°	2039.2	2050.7	2049.9	2053.2	2057.3	2059.7	2058.1	2035.1	2004.7	1980.8
7.5°	2004.7	2017.8	2028.5	2044.9	2073.7	2104.1	2118.9	2114.0	2082.8	2049.9
10°	1906.9	1920.8	1946.3	1984.9	2045.8	2111.5	2166.6	2192.1	2172.3	2136.2
12.5°	1727.7	1741.7	1791.8	1875.6	1977.5	2091.8	2197.0	2265.2	2270.2	2234.0
15°	1526.3	1540.3	1593.7	1698.9	1854.3	2037.5	2213.4	2342.5	2386.0	2354.8
17.5°	1401.4	1413.7	1454.0	1538.6	1700.6	1929.1	2207.7	2424.7	2524.1	2499.5
20°	1363.6	1374.3	1393.2	1452.3	1587.1	1816.4	2169.9	2501.9	2672.9	2658.9
22.5°	1403.8	1413.7	1419.5	1445.8	1530.4	1742.5	2122.2	2580.8	2845.5	2847.1
25°	1496.7	1506.6	1500.0	1516.4	1553.4	1719.5	2104.1	2673.7	3062.5	3080.6
27.5°	1649.6	1650.4	1634.8	1634.0	1639.7	1754.0	2123.0	2773.2	3336.2	3369.9
30°	1956.2	1943.8	1883.8	1818.9	1789.3	1857.5	2175.6	2890.7	3659.2	3719.2
32.5°	2428.8	2410.7	2300.6	2145.2	1989.1	2024.4	2270.2	3024.7	4011.0	4119.5
35°	2941.7	2936.7	2821.7	2590.7	2317.8	2261.9	2423.9	3200.6	4394.8	4567.4
37.5°	3418.4	3415.9	3350.2	3078.1	2746.0	2593.2	2670.4	3430.7	4805.8	5055.6
40°	3854.0	3861.4	3795.6	3552.4	3217.8	3018.1	3005.8	3715.1	5262.8	5587.4
42.5°	4230.4	4238.7	4172.1	3992.1	3683.9	3488.2	3417.6	4063.6	5709.1	6158.7
45°	4486.1	4537.0	4527.2	4383.3	4162.2	3959.2	3912.4	4500.9	6217.8	6764.4
47.5°	4558.4	4605.2	4679.2	4698.9	4564.1	4364.4	4420.3	5027.7	6732.4	7371.0
50°	4380.0	4423.6	4577.3	4781.9	4875.6	4814.0	4914.3	5592.4	7259.2	7975.9
52.5°	4028.2	4072.6	4266.6	4590.4	4972.6	5166.6	5409.9	6148.8	7769.6	8548.8
55°	3519.5	3566.3	3815.4	4181.9	4787.7	5312.1	5823.3	6704.4	8237.3	9064.2
57.5°	2827.4	2861.9	3120.8	3633.7	4322.5	5167.4	6128.3	7311.0	8677.9	9570.5
60°	1842.8	1873.2	2174.0	2746.0	3551.5	4684.1	6189.1	7987.4	9263.1	10228.8
62.5°	1225.5	1246.0	1424.4	1844.4	2501.1	3756.2	5833.2	8527.5	10121.2	11374.6
65°	840.8	861.4	1039.7	1332.3	1615.9	2484.7	4809.9	8455.9	10898.7	12284.5
67.5°	600.0	617.3	768.5	1044.7	1169.6	1443.3	3260.6	7542.0	10786.9	12319.0
70°	429.9	439.7	564.7	813.7	929.6	867.1	1813.2	5768.3	9444.7	11375.4
72.5°	300.8	304.1	392.1	619.7	748.8	632.9	863.0	3845.8	7143.3	8928.5
75°	203.8	207.9	263.8	454.5	600.8	483.3	457.0	2062.2	4193.5	4942.2
77.5°	124.9	126.6	170.1	310.7	449.6	368.2	294.2	873.7	1622.5	1592.9
80°	70.7	70.7	108.5	193.2	306.6	237.5	206.3	371.5	513.7	451.2
82.5°	39.5	40.3	78.9	120.0	203.0	140.5	113.4	171.8	221.9	196.4
85°	16.4	18.1	48.5	56.7	97.0	69.9	46.0	72.3	82.2	73.2
87.5°	1.6	2.5	14.8	10.7	11.5	14.0	6.6	14.0	11.5	11.5
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°
1891.2	0°	1891.2	1891.2	1891.2	1891.2	1891.2	1891.2	1891.2	1891.2	1891.2	1891.2
1919.2	2.5°	1903.6	1891.2	1860.0	1823.8	1776.2	1753.2	1721.9	1700.6	1682.5	1684.1
1966.9	5°	1940.6	1909.3	1839.5	1752.3	1643.8	1566.6	1484.4	1427.7	1381.7	1371.8
2032.6	7.5°	1991.5	1942.2	1819.7	1662.8	1479.5	1340.6	1216.4	1136.7	1080.0	1061.9
2112.3	10°	2057.3	1985.8	1794.3	1550.1	1286.3	1109.6	976.4	914.0	875.3	862.2
2206.0	12.5°	2133.7	2035.9	1760.6	1412.9	1087.4	917.3	832.6	801.4	789.0	784.9
2321.1	15°	2229.9	2098.4	1709.6	1250.1	918.9	799.7	763.6	759.5	761.1	759.5
2459.2	17.5°	2344.1	2166.6	1626.6	1082.5	805.5	739.7	726.6	729.9	734.0	733.2
2613.7	20°	2469.1	2234.0	1520.6	933.7	728.2	697.0	689.6	692.9	696.2	694.5
2792.1	22.5°	2611.2	2306.3	1403.0	817.8	676.4	657.5	649.3	650.1	650.1	646.9
3018.1	25°	2781.4	2386.0	1279.7	735.6	637.0	622.2	612.3	609.0	604.1	594.3
3292.6	27.5°	2984.4	2470.7	1161.4	678.1	605.8	591.8	580.3	572.1	559.7	543.3
3622.2	30°	3212.9	2573.4	1061.1	641.9	581.1	567.1	554.0	541.6	523.6	503.0
4001.1	32.5°	3481.7	2683.6	988.0	618.1	558.9	544.1	528.5	513.7	494.0	473.4
4426.9	35°	3802.2	2816.7	945.2	601.6	541.6	521.9	504.7	488.2	473.4	455.3
4889.6	37.5°	4149.9	2958.1	932.1	593.4	530.1	499.7	480.0	468.5	466.9	456.2
5390.2	40°	4530.4	3125.8	941.9	588.5	517.8	478.4	457.0	454.5	458.6	439.7
5925.2	42.5°	4933.2	3324.7	958.4	582.7	500.6	457.0	436.4	436.4	433.2	406.9
6490.7	45°	5368.8	3554.0	974.8	568.8	480.0	435.6	420.0	414.2	400.3	374.8
7059.5	47.5°	5807.7	3787.4	987.1	543.3	455.3	417.5	403.6	390.4	369.9	346.9
7617.6	50°	6224.4	3997.0	974.0	505.5	427.4	400.3	385.5	367.4	345.2	329.6
8146.1	52.5°	6596.8	4178.7	918.1	461.1	397.8	382.2	369.0	350.1	332.1	315.6
8622.8	55°	6920.6	4325.8	819.5	419.2	371.5	366.6	353.4	329.6	304.9	291.0
9095.4	57.5°	7231.3	4437.6	696.2	384.7	347.7	349.3	329.6	308.2	285.2	270.4
9732.4	60°	7644.7	4587.2	571.2	352.6	322.2	327.1	305.8	290.1	261.4	242.5
10824.7	62.5°	8305.5	4819.8	453.7	313.2	292.6	294.2	285.2	266.3	231.8	209.6
11634.3	65°	8829.9	4734.3	357.5	270.4	258.9	261.4	261.4	240.8	203.8	178.4
11677.9	67.5°	8770.7	4053.7	285.2	228.5	226.9	228.5	234.2	217.0	180.8	160.3
10788.6	70°	8079.5	3224.4	228.5	189.9	197.3	193.2	209.6	198.1	162.7	142.2
8363.9	72.5°	6592.6	2322.8	174.2	157.0	151.2	157.8	189.0	178.4	135.6	112.6
4430.2	75°	3852.4	1239.5	129.9	124.1	109.3	131.5	167.7	152.1	103.6	83.0
1357.8	77.5°	1254.3	432.3	95.3	91.2	81.4	106.0	143.0	128.2	84.7	65.8
397.8	80°	336.2	130.7	64.9	60.0	52.6	78.9	113.4	101.9	60.8	42.7
171.0	82.5°	134.8	55.1	37.8	33.7	28.8	54.2	89.6	82.2	45.2	27.1
53.4	85°	43.6	18.1	14.0	10.7	13.2	33.7	53.4	55.9	32.1	14.0
8.2	87.5°	5.8	2.5	2.5	3.3	2.5	5.8	16.4	15.6	9.0	1.6
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>
1891.2
1667.7
1349.6
1043.8
852.3
782.5
758.6
731.5
693.7
645.2
592.6
541.6
501.4
474.2
453.7
455.3
440.6
406.9
374.0
346.0
327.1
314.0
289.3
268.8
240.0
207.9
175.9
157.0
139.7
110.1
80.5
63.3
41.9
27.1
10.7
0.0
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