

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: P941554

Luminaire Tested: **GALN-SB5A-927-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941554
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-SB5A-927-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 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: 10072 lumens
Efficiency: N/A
Efficacy: 71.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

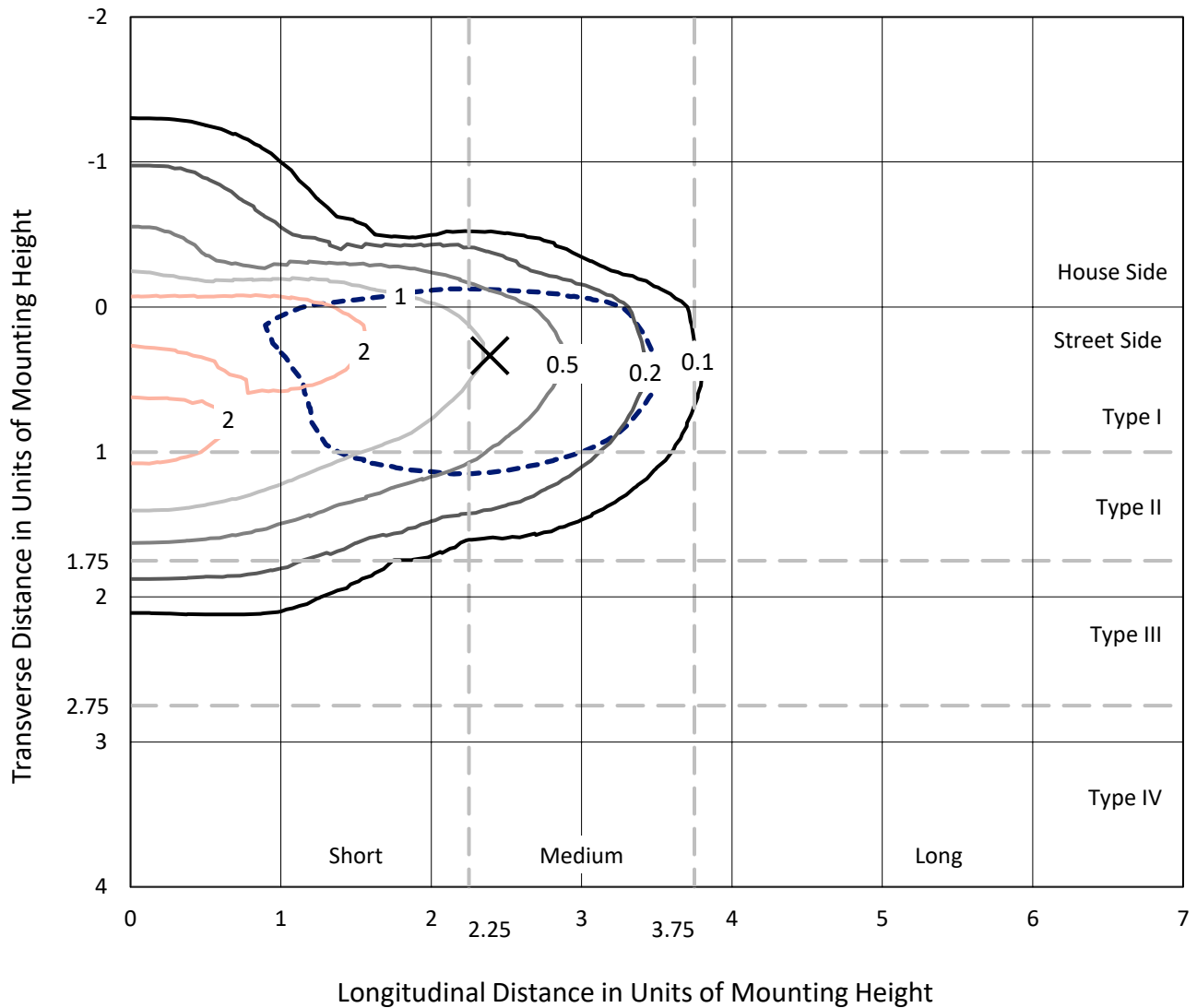
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

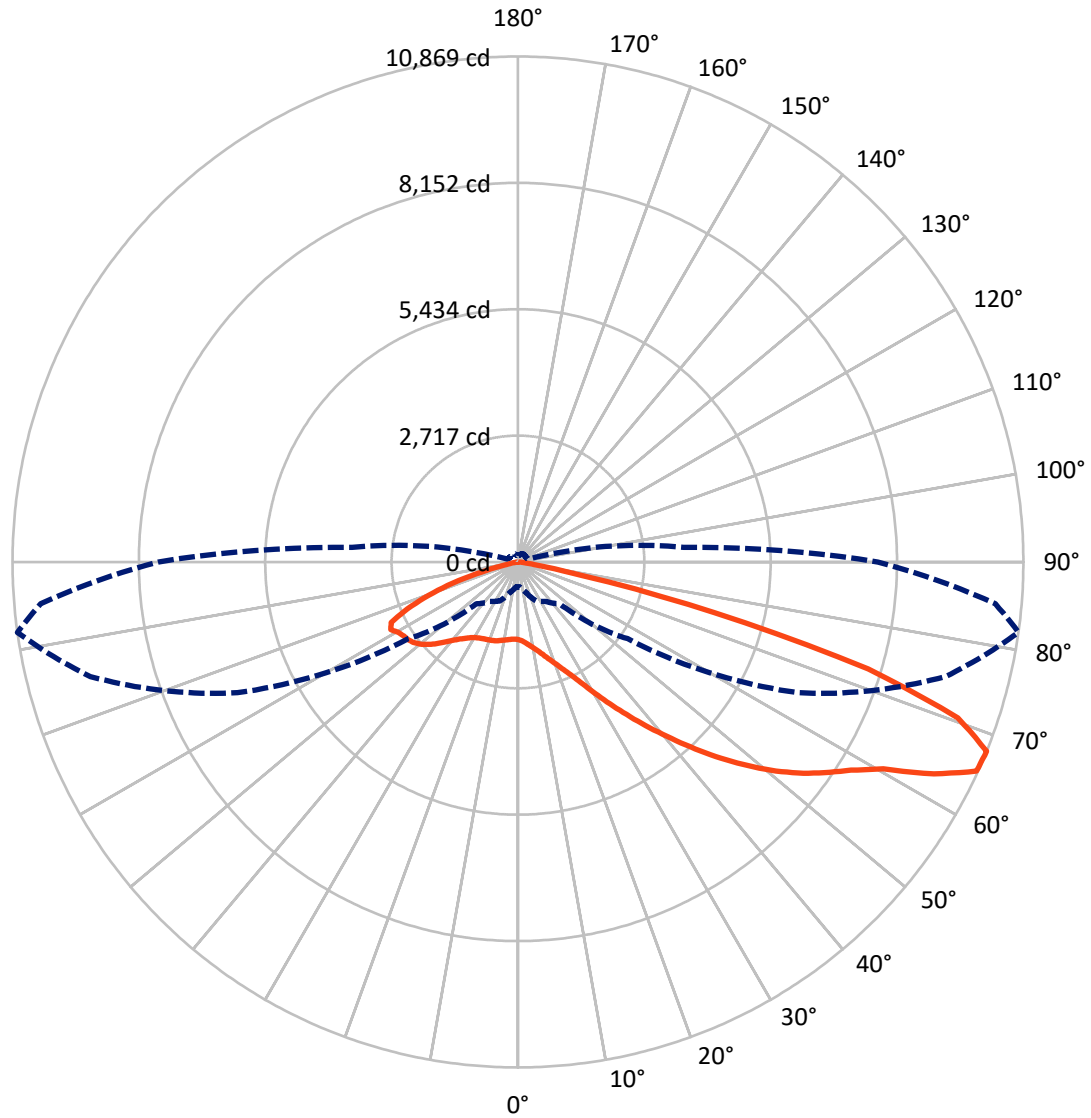
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type 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	1824.4	0.0	1824.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	8247.6	0.0	8247.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	10072.0	0.0	10072.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.7	1.5
10°-20°	386.3	3.8
20°-30°	618.7	6.1
30°-40°	1094.1	10.9
40°-50°	1917.0	19.0
50°-60°	2556.7	25.4
60°-70°	2380.2	23.6
70°-80°	913.5	9.1
80°-90°	56.7	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°	10072.0	100.0
0°-180°	10072.0	100.0

Coefficient of Utilization



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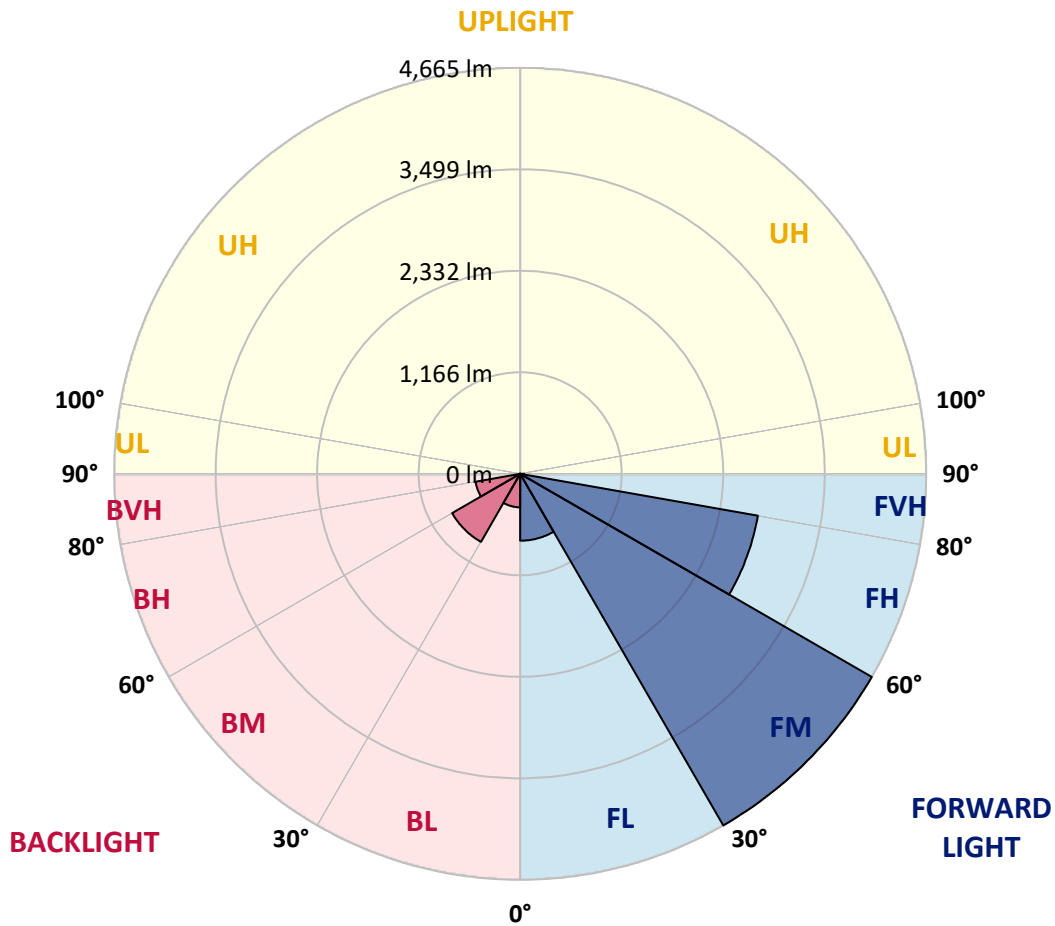
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	768.4	7.6			
FM (30°-60°)	4664.9	46.3			
FH (60°-80°)	2773.0	27.5			G2/5000
FVH (80°-90°)	41.3	0.4			G1/100
BL (0°-30°)	385.3	3.8	B1/500		
BM (30°-60°)	902.9	9.0	B1/1000		
BH (60°-80°)	520.7	5.2	B2/1000		G2/1000
BVH (80°-90°)	15.5	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°	1668.6	1668.6	1668.6	1668.6	1668.6	1668.6	1668.6	1668.6	1668.6	1668.6
2.5°	1763.6	1773.7	1767.9	1765.0	1760.0	1752.7	1746.9	1728.8	1709.9	1697.6
5°	1799.1	1809.3	1808.5	1811.4	1815.1	1817.2	1815.8	1795.5	1768.7	1747.6
7.5°	1768.7	1780.3	1789.7	1804.2	1829.6	1856.4	1869.5	1865.1	1837.6	1808.5
10°	1682.4	1694.7	1717.2	1751.3	1804.9	1862.9	1911.5	1934.0	1916.6	1884.7
12.5°	1524.3	1536.6	1580.8	1654.8	1744.7	1845.5	1938.3	1998.5	2002.9	1971.0
15°	1346.6	1358.9	1406.1	1498.9	1636.0	1797.7	1952.9	2066.7	2105.1	2077.6
17.5°	1236.4	1247.3	1282.8	1357.5	1500.4	1701.9	1947.8	2139.2	2227.0	2205.2
20°	1203.0	1212.5	1229.1	1281.4	1400.3	1602.6	1914.4	2207.4	2358.2	2345.9
22.5°	1238.6	1247.3	1252.3	1275.6	1350.2	1537.3	1872.4	2277.0	2510.5	2511.9
25°	1320.5	1329.2	1323.4	1337.9	1370.5	1517.0	1856.4	2358.9	2701.9	2717.9
27.5°	1455.4	1456.1	1442.3	1441.6	1446.7	1547.5	1873.1	2446.7	2943.4	2973.1
30°	1725.9	1715.0	1662.1	1604.8	1578.7	1638.9	1919.5	2550.4	3228.4	3281.3
32.5°	2142.8	2126.9	2029.7	1892.7	1754.9	1786.1	2002.9	2668.6	3538.8	3634.5
35°	2595.3	2591.0	2489.5	2285.7	2044.9	1995.6	2138.5	2823.8	3877.4	4029.7
37.5°	3015.9	3013.8	2955.7	2715.7	2422.8	2287.9	2356.0	3026.8	4240.0	4460.4
40°	3400.3	3406.8	3348.8	3134.1	2839.0	2662.8	2651.9	3277.7	4643.2	4929.6
42.5°	3732.4	3739.6	3680.9	3522.1	3250.2	3077.6	3015.2	3585.2	5037.0	5433.6
45°	3957.9	4002.9	3994.2	3867.3	3672.2	3493.1	3451.8	3971.0	5485.8	5968.1
47.5°	4021.7	4063.1	4128.3	4145.7	4026.8	3850.6	3899.9	4435.8	5939.8	6503.2
50°	3864.4	3902.8	4038.4	4219.0	4301.6	4247.3	4335.7	4934.0	6404.6	7036.9
52.5°	3554.0	3593.2	3764.3	4050.0	4387.2	4558.3	4773.0	5424.9	6854.9	7542.4
55°	3105.1	3146.5	3366.2	3689.6	4224.0	4686.7	5137.7	5915.1	7267.5	7997.0
57.5°	2494.5	2525.0	2753.4	3205.9	3813.6	4559.1	5406.8	6450.3	7656.2	8443.7
60°	1625.8	1652.6	1918.0	2422.8	3133.4	4132.7	5460.4	7047.1	8172.5	9024.6
62.5°	1081.2	1099.3	1256.7	1627.3	2206.7	3314.0	5146.4	7523.5	8929.6	10035.5
65°	741.8	760.0	917.3	1175.5	1425.7	2192.2	4243.6	7460.4	9615.6	10838.2
67.5°	529.4	544.6	678.0	921.7	1031.9	1273.4	2876.7	6654.1	9517.0	10868.7
70°	379.3	388.0	498.2	717.9	820.2	765.0	1599.7	5089.2	8332.8	10036.2
72.5°	265.4	268.3	345.9	546.8	660.6	558.4	761.4	3393.0	6302.4	7877.4
75°	179.8	183.5	232.8	401.0	530.1	426.4	403.2	1819.4	3699.8	4360.4
77.5°	110.2	111.7	150.1	274.1	396.7	324.9	259.6	770.8	1431.5	1405.4
80°	62.4	62.4	95.7	170.4	270.5	209.6	182.0	327.8	453.2	398.1
82.5°	34.8	35.5	69.6	105.9	179.1	124.0	100.1	151.6	195.8	173.3
85°	14.5	16.0	42.8	50.0	85.6	61.6	40.6	63.8	72.5	64.5
87.5°	1.5	2.2	13.1	9.4	10.2	12.3	5.8	12.3	10.2	10.2
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°
1668.6	0°	1668.6	1668.6	1668.6	1668.6	1668.6	1668.6	1668.6	1668.6	1668.6	1668.6
1693.2	2.5°	1679.5	1668.6	1641.0	1609.1	1567.1	1546.8	1519.2	1500.4	1484.4	1485.8
1735.3	5°	1712.1	1684.5	1622.9	1546.0	1450.3	1382.2	1309.6	1259.6	1219.0	1210.3
1793.3	7.5°	1757.1	1713.5	1605.5	1467.0	1305.3	1182.7	1073.2	1002.9	952.9	936.9
1863.7	10°	1815.1	1752.0	1583.0	1367.6	1134.9	979.0	861.5	806.4	772.3	760.7
1946.3	12.5°	1882.5	1796.2	1553.3	1246.5	959.4	809.3	734.6	707.0	696.2	692.5
2047.8	15°	1967.4	1851.3	1508.3	1103.0	810.7	705.6	673.7	670.0	671.5	670.0
2169.7	17.5°	2068.2	1911.5	1435.1	955.0	710.7	652.6	641.0	643.9	647.6	646.8
2306.0	20°	2178.4	1971.0	1341.5	823.8	642.5	614.9	608.4	611.3	614.2	612.8
2463.4	22.5°	2303.8	2034.8	1237.8	721.5	596.8	580.1	572.9	573.6	573.6	570.7
2662.8	25°	2453.9	2105.1	1129.1	649.0	562.0	548.9	540.2	537.3	533.0	524.3
2905.0	27.5°	2633.1	2179.8	1024.6	598.3	534.4	522.1	512.0	504.7	493.8	479.3
3195.8	30°	2834.6	2270.5	936.2	566.3	512.7	500.4	488.8	477.9	461.9	443.8
3530.1	32.5°	3071.8	2367.6	871.6	545.3	493.1	480.1	466.3	453.2	435.8	417.7
3905.7	35°	3354.6	2485.1	833.9	530.8	477.9	460.5	445.2	430.7	417.7	401.7
4314.0	37.5°	3661.3	2609.8	822.3	523.6	467.7	440.9	423.5	413.3	411.9	402.5
4755.6	40°	3997.1	2757.8	831.0	519.2	456.8	422.0	403.2	401.0	404.6	388.0
5227.7	42.5°	4352.4	2933.3	845.5	514.1	441.6	403.2	385.1	385.1	382.2	359.0
5726.6	45°	4736.7	3135.6	860.0	501.8	423.5	384.3	370.6	365.5	353.2	330.7
6228.4	47.5°	5124.0	3341.5	870.9	479.3	401.7	368.4	356.1	344.5	326.3	306.0
6720.8	50°	5491.6	3526.4	859.3	446.0	377.1	353.2	340.1	324.1	304.6	290.8
7187.0	52.5°	5820.1	3686.7	810.0	406.8	351.0	337.2	325.6	308.9	293.0	278.5
7607.6	55°	6105.8	3816.5	723.0	369.8	327.8	323.4	311.8	290.8	269.0	256.7
8024.6	57.5°	6379.9	3915.1	614.2	339.4	306.7	308.2	290.8	271.9	251.6	238.6
8586.6	60°	6744.7	4047.1	504.0	311.1	284.3	288.6	269.8	256.0	230.6	213.9
9550.3	62.5°	7327.7	4252.3	400.3	276.3	258.2	259.6	251.6	235.0	204.5	184.9
10264.6	65°	7790.4	4176.9	315.4	238.6	228.4	230.6	230.6	212.5	179.8	157.4
10303.1	67.5°	7738.2	3576.5	251.6	201.6	200.1	201.6	206.7	191.4	159.5	141.4
9518.4	70°	7128.3	2844.8	201.6	167.5	174.0	170.4	184.9	174.8	143.6	125.5
7379.2	72.5°	5816.5	2049.3	153.7	138.5	133.4	139.2	166.8	157.4	119.7	99.3
3908.6	75°	3398.8	1093.5	114.6	109.5	96.4	116.0	147.9	134.2	91.4	73.2
1198.0	77.5°	1106.6	381.4	84.1	80.5	71.8	93.5	126.2	113.1	74.7	58.0
351.0	80°	296.6	115.3	57.3	52.9	46.4	69.6	100.1	89.9	53.7	37.7
150.8	82.5°	118.9	48.6	33.4	29.7	25.4	47.9	79.0	72.5	39.9	23.9
47.1	85°	38.4	16.0	12.3	9.4	11.6	29.7	47.1	49.3	28.3	12.3
7.3	87.5°	5.1	2.2	2.2	2.9	2.2	5.1	14.5	13.8	8.0	1.5
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>
1668.6
1471.3
1190.7
921.0
752.0
690.4
669.3
645.4
612.0
569.2
522.8
477.9
442.3
418.4
400.3
401.7
388.7
359.0
329.9
305.3
288.6
277.0
255.3
237.1
211.7
183.5
155.2
138.5
123.3
97.2
71.1
55.8
37.0
23.9
9.4
0.0
0.0

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