

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: P946776

Luminaire Tested: **GALN-SB2B-827-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946776
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2B-827-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9974 lumens
Efficiency: N/A
Efficacy: 135.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

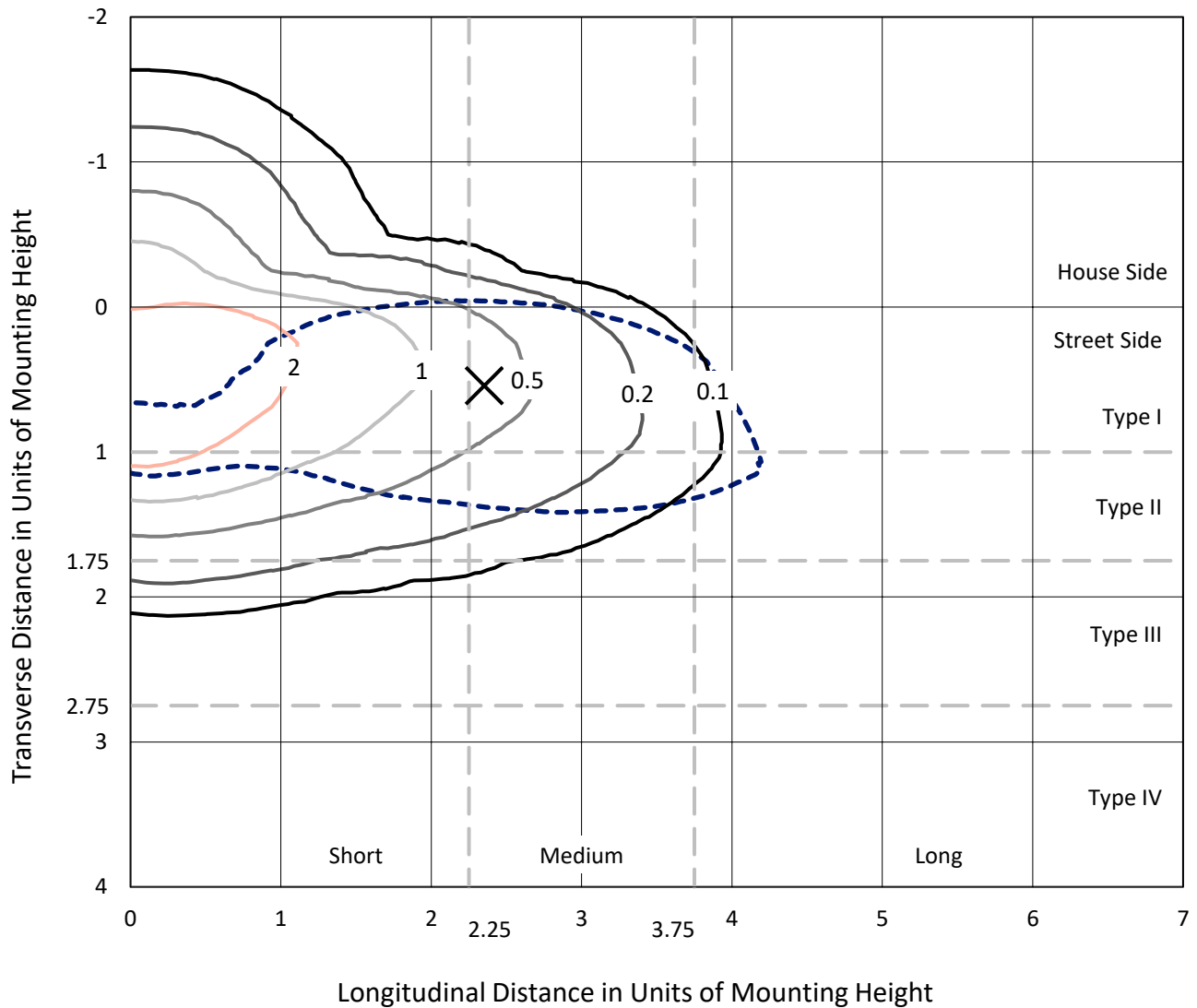
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P946776
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Iso-Footcandle Lines of Horizontal Illumination

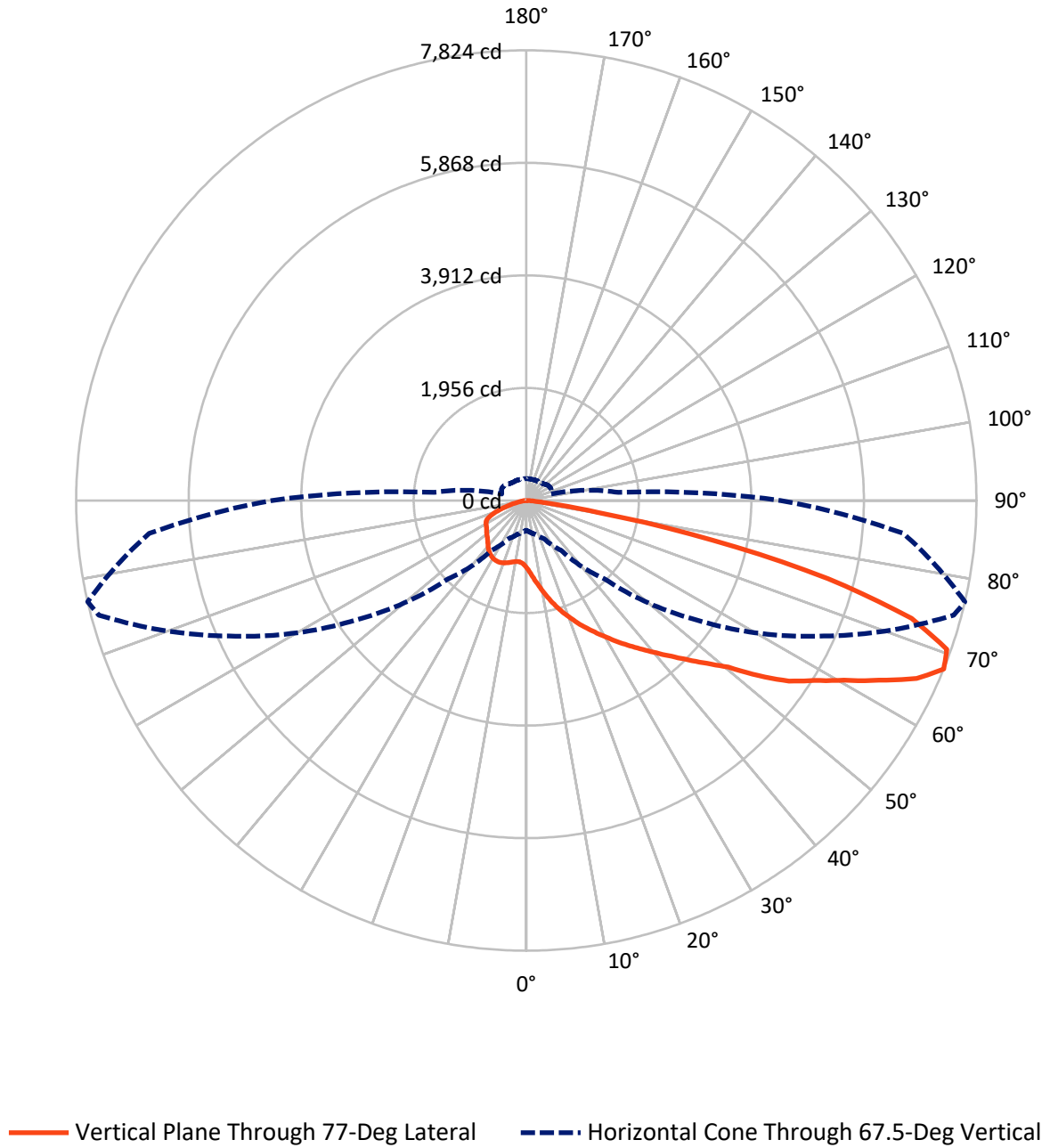
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type II - Medium - N/A

REPORT NUMBER: P946776
CATALOG NUMBER: GALN-SB2B-827-U-T2R

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1886.7	0.0	1886.7
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	8087.3	0.0	8087.3
	% Fixture	81.1	0.0	81.1
Total	Lumens	9974.0	0.0	9974.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.4	1.3
10°-20°	450.6	4.5
20°-30°	850.9	8.5
30°-40°	1370.7	13.7
40°-50°	1874.9	18.8
50°-60°	2114.9	21.2
60°-70°	1974.0	19.8
70°-80°	1082.1	10.8
80°-90°	130.5	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°	9974.0	100.0
0°-180°	9974.0	100.0

Coefficient of Utilization



REPORT NUMBER: P946776

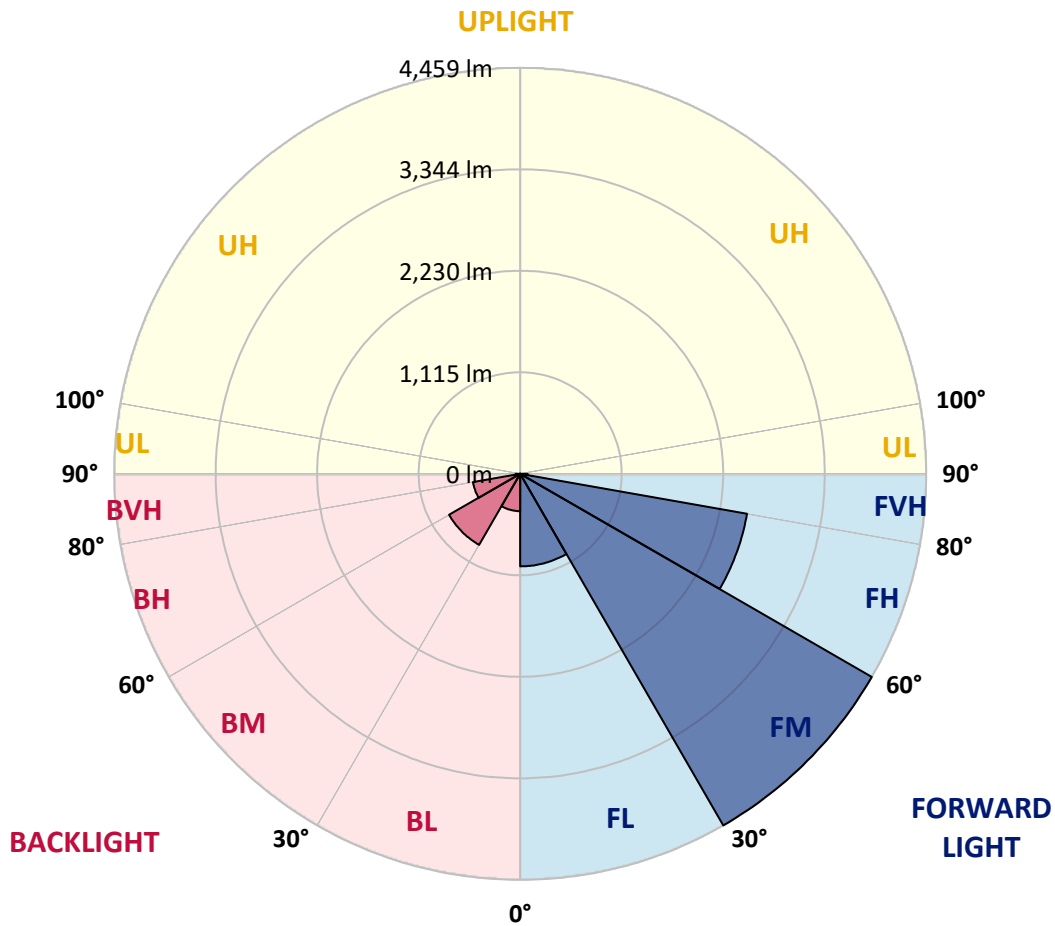
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1016.7	10.2			
FM (30°-60°)	4459.3	44.7			
FH (60°-80°)	2529.7	25.4			G2/5000
FVH (80°-90°)	81.6	0.8			G1/100
BL (0°-30°)	410.2	4.1	B1/500		
BM (30°-60°)	901.2	9.0	B1/1000		
BH (60°-80°)	526.4	5.3	B2/1000		G2/1000
BVH (80°-90°)	48.9	0.5			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



REPORT NUMBER: P946776
 CATALOG NUMBER: GALN-SB2B-827-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1170.3	1170.3	1170.3	1170.3	1170.3	1170.3	1170.3	1170.3	1170.3	1170.3
2.5°	1465.3	1475.6	1462.7	1462.7	1419.4	1396.8	1353.5	1320.6	1261.4	1251.1
5°	1732.0	1744.8	1726.8	1719.1	1668.1	1621.3	1548.7	1477.1	1371.6	1360.8
7.5°	1938.4	1954.9	1938.9	1930.7	1885.4	1832.9	1747.9	1648.0	1499.3	1478.1
10°	2106.8	2109.4	2104.2	2107.3	2071.8	2028.5	1941.5	1825.2	1639.3	1610.5
12.5°	2202.0	2213.9	2224.2	2242.7	2236.5	2209.7	2131.5	1992.5	1787.6	1750.5
15°	2246.8	2267.4	2290.6	2333.3	2367.8	2374.5	2314.8	2172.2	1938.4	1893.6
17.5°	2262.8	2282.3	2318.9	2380.7	2454.8	2504.8	2478.0	2346.7	2087.7	2036.2
20°	2343.6	2349.3	2371.4	2430.1	2510.4	2593.3	2613.4	2514.5	2235.5	2177.3
22.5°	2516.6	2505.3	2511.5	2538.2	2595.9	2676.2	2722.0	2662.8	2387.4	2320.4
25°	2802.3	2769.4	2736.4	2705.6	2734.9	2780.2	2832.2	2811.1	2546.5	2461.5
27.5°	3163.3	3123.1	3050.5	2949.1	2913.6	2929.5	2952.7	2948.6	2693.7	2607.7
30°	3518.5	3471.7	3385.2	3238.4	3144.7	3102.5	3085.0	3073.2	2853.8	2762.2
32.5°	3802.2	3765.1	3680.2	3515.9	3380.0	3307.9	3249.7	3207.5	3021.2	2929.5
35°	4050.3	4015.9	3918.5	3739.4	3591.6	3514.9	3438.7	3348.6	3195.2	3102.5
37.5°	4276.9	4242.4	4109.0	3922.7	3773.9	3720.8	3652.9	3500.0	3369.7	3282.2
40°	4420.0	4412.3	4287.7	4076.6	3922.1	3895.9	3873.2	3675.5	3563.3	3481.9
42.5°	4456.6	4473.6	4374.7	4201.2	4053.9	4032.8	4085.9	3874.3	3780.6	3702.8
45°	4368.5	4417.4	4352.6	4234.7	4147.7	4136.3	4274.3	4091.5	4021.0	3949.9
47.5°	4145.6	4228.5	4201.7	4185.2	4172.9	4221.8	4440.1	4322.2	4293.4	4231.6
50°	3695.6	3852.6	3899.5	4003.5	4122.9	4288.2	4590.9	4574.0	4611.5	4549.2
52.5°	2917.7	3133.9	3405.8	3666.3	3969.5	4266.1	4756.7	4935.4	5094.0	5060.0
55°	2408.5	2505.8	2714.8	3192.6	3671.9	4172.9	4831.4	5227.3	5572.8	5542.4
57.5°	2017.2	2104.2	2232.9	2631.9	3221.9	3961.3	4877.7	5405.4	5900.7	5897.6
60°	1597.6	1689.7	1821.5	2104.2	2696.3	3595.7	4867.4	5608.3	6319.3	6345.0
62.5°	1123.9	1225.3	1371.6	1635.2	2159.3	3122.1	4657.4	5755.0	6812.0	6882.0
65°	738.8	805.7	915.9	1143.5	1608.9	2513.0	4256.3	5774.1	7339.2	7457.6
67.5°	517.9	543.7	608.6	732.1	1060.6	1927.1	3617.4	5576.9	7690.9	7824.2
70°	404.2	417.0	450.0	499.4	666.2	1295.9	2772.0	5064.1	7615.7	7754.7
72.5°	349.1	361.4	373.8	380.0	446.9	800.1	1877.7	4234.1	6907.8	7002.0
75°	316.6	319.7	330.0	328.0	340.8	519.0	1083.8	3085.0	5450.2	5417.8
77.5°	266.2	270.3	287.3	284.7	302.7	354.7	562.7	1990.9	3533.4	3313.1
80°	225.5	227.6	246.1	243.0	263.1	256.9	287.3	1014.8	1498.7	1269.6
82.5°	78.3	96.8	187.9	193.6	200.8	155.5	165.8	413.9	457.7	350.6
85°	38.1	40.7	95.8	135.9	135.4	78.3	80.8	147.8	144.2	113.3
87.5°	6.2	7.7	11.3	53.0	42.2	20.6	27.8	28.8	29.9	25.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P946776
 CATALOG NUMBER: GALN-SB2B-827-U-T2R

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1170.3	0°	1170.3	1170.3	1170.3	1170.3	1170.3	1170.3	1170.3	1170.3	1170.3	1170.3
1212.0	2.5°	1183.1	1157.4	1103.3	1053.4	1014.3	976.7	955.6	937.5	927.2	925.2
1268.6	5°	1215.1	1162.0	1063.7	980.8	926.7	886.6	865.5	852.1	845.4	841.3
1344.8	7.5°	1260.9	1183.1	1043.1	948.9	892.2	863.4	852.6	850.5	850.0	850.5
1437.0	10°	1324.2	1217.6	1041.0	941.2	893.8	877.8	877.3	877.8	879.9	880.4
1537.4	12.5°	1392.7	1253.2	1049.3	947.8	913.3	904.6	903.1	902.5	904.1	905.1
1638.8	15°	1467.3	1300.0	1063.2	962.3	935.0	925.7	924.2	921.1	920.6	920.0
1745.4	17.5°	1544.0	1346.3	1078.6	977.7	948.9	936.0	930.3	923.1	917.5	915.9
1855.5	20°	1621.8	1392.2	1089.4	985.4	949.9	931.9	920.6	908.2	898.4	892.8
1966.7	22.5°	1704.7	1440.0	1096.1	983.4	940.6	915.9	895.3	880.9	866.0	856.2
2079.0	25°	1785.5	1481.7	1095.6	972.6	922.6	891.2	865.0	846.4	825.8	815.5
2194.8	27.5°	1863.3	1519.3	1082.7	953.5	896.9	861.9	830.5	808.3	788.2	778.5
2311.7	30°	1943.6	1550.7	1062.7	925.7	866.5	827.9	793.4	774.3	756.3	747.1
2435.3	32.5°	2023.4	1579.6	1034.3	891.2	831.5	794.4	760.4	742.9	732.1	732.1
2568.1	35°	2107.8	1599.6	996.8	851.1	794.4	758.9	732.1	721.8	720.8	714.6
2708.6	37.5°	2196.9	1612.5	950.9	809.9	757.9	724.4	716.2	703.8	693.5	680.1
2863.1	40°	2290.6	1625.4	895.8	767.1	719.2	700.7	697.1	680.6	651.3	618.3
3038.1	42.5°	2404.4	1634.1	838.7	724.4	678.6	672.4	677.5	649.2	602.4	577.7
3249.2	45°	2536.2	1648.6	786.2	682.2	636.9	636.9	658.5	621.4	582.8	567.4
3490.2	47.5°	2707.1	1682.0	737.3	635.8	598.3	608.6	616.3	588.0	566.3	547.3
3783.7	50°	2954.2	1762.3	686.8	589.0	568.9	589.5	578.7	562.2	537.0	521.5
4250.1	52.5°	3261.1	1809.7	642.0	546.8	543.7	564.3	548.8	533.4	514.3	493.7
4603.8	55°	3470.1	1818.5	604.4	515.9	526.7	524.6	519.0	505.1	494.8	467.5
4952.9	57.5°	3703.8	1836.0	573.5	497.3	515.9	493.2	491.2	479.3	465.9	447.4
5378.7	60°	3983.4	1863.3	546.8	490.1	506.6	472.6	462.3	457.7	444.3	435.1
5890.9	62.5°	4288.2	1888.0	519.5	491.2	495.8	452.6	437.1	435.6	427.3	424.2
6371.8	65°	4496.2	1820.5	485.5	490.1	478.8	432.0	412.4	411.9	405.2	404.2
6580.3	67.5°	4423.6	1606.9	439.7	475.7	461.3	411.4	389.7	387.7	378.9	379.4
6362.5	70°	4060.1	1302.1	376.4	440.2	439.7	392.8	366.1	359.4	347.5	349.6
5532.1	72.5°	3378.5	964.8	291.4	381.0	405.2	375.8	338.8	328.0	313.0	315.1
4083.8	75°	2439.9	655.9	212.1	289.9	352.7	355.8	312.0	293.5	275.4	278.5
2273.1	77.5°	1248.5	371.7	156.0	199.8	277.0	323.3	287.8	263.1	259.0	287.8
655.4	80°	407.2	186.4	108.1	140.0	181.7	264.6	252.3	224.0	222.9	229.6
137.5	82.5°	121.5	78.8	69.5	92.2	100.4	202.9	217.8	169.4	145.7	153.4
45.8	85°	41.7	38.1	39.6	45.8	47.9	118.9	152.4	112.2	106.1	116.9
10.3	87.5°	9.8	13.4	11.3	10.3	10.3	28.8	59.2	46.9	64.9	43.2
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°
1170.3
925.2
840.8
852.1
880.9
905.6
919.5
917.5
894.8
856.7
815.5
777.9
746.5
732.6
713.1
678.1
613.7
578.2
569.9
546.8
520.0
489.6
468.0
441.2
437.6
424.2
403.6
379.4
351.6
314.6
279.6
283.7
197.2
158.6
115.3
41.7
0.0

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