

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: P940314

Luminaire Tested: **GALN-SB3B-827-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940314
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-SB3B-827-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 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: 10728 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

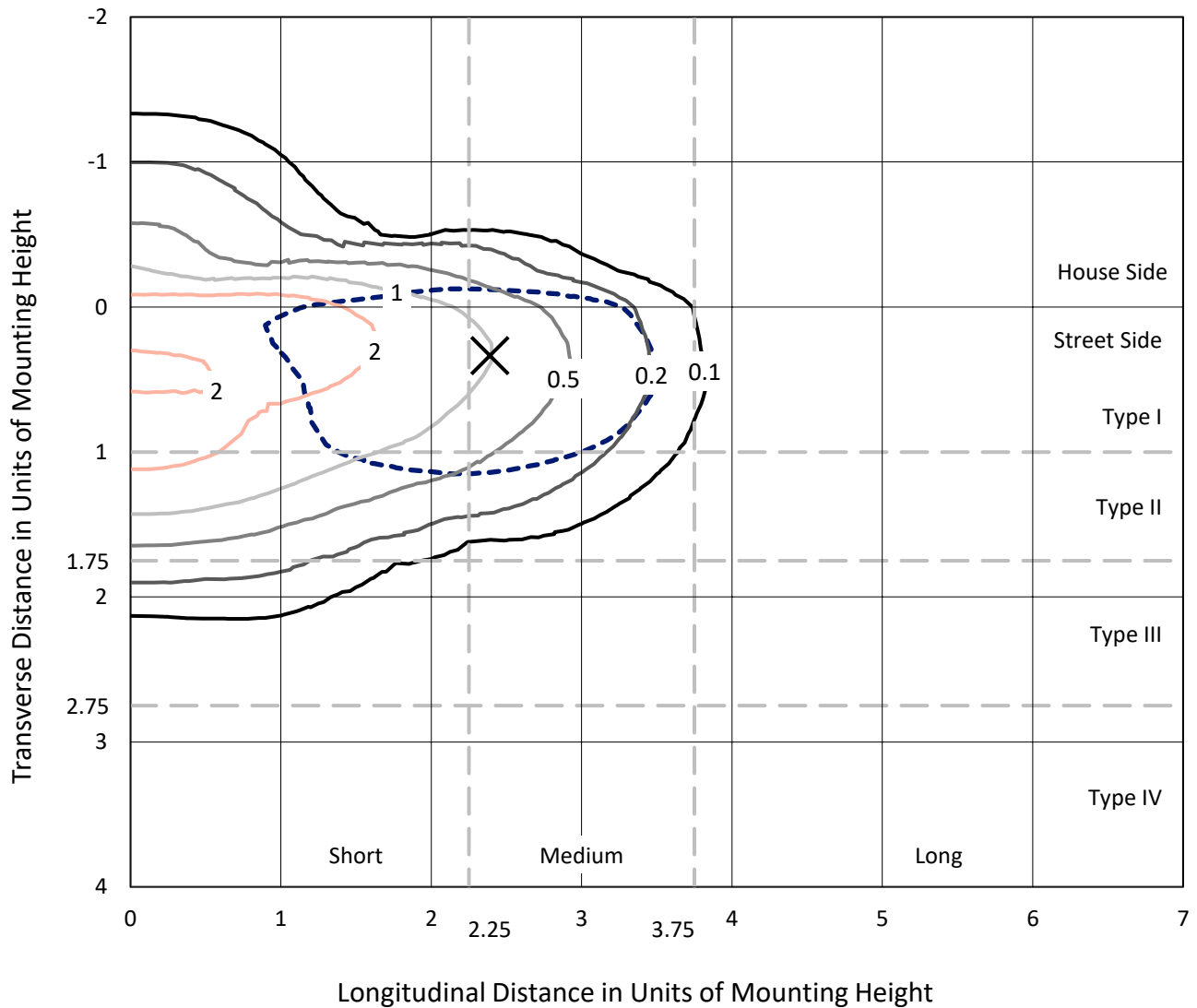
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

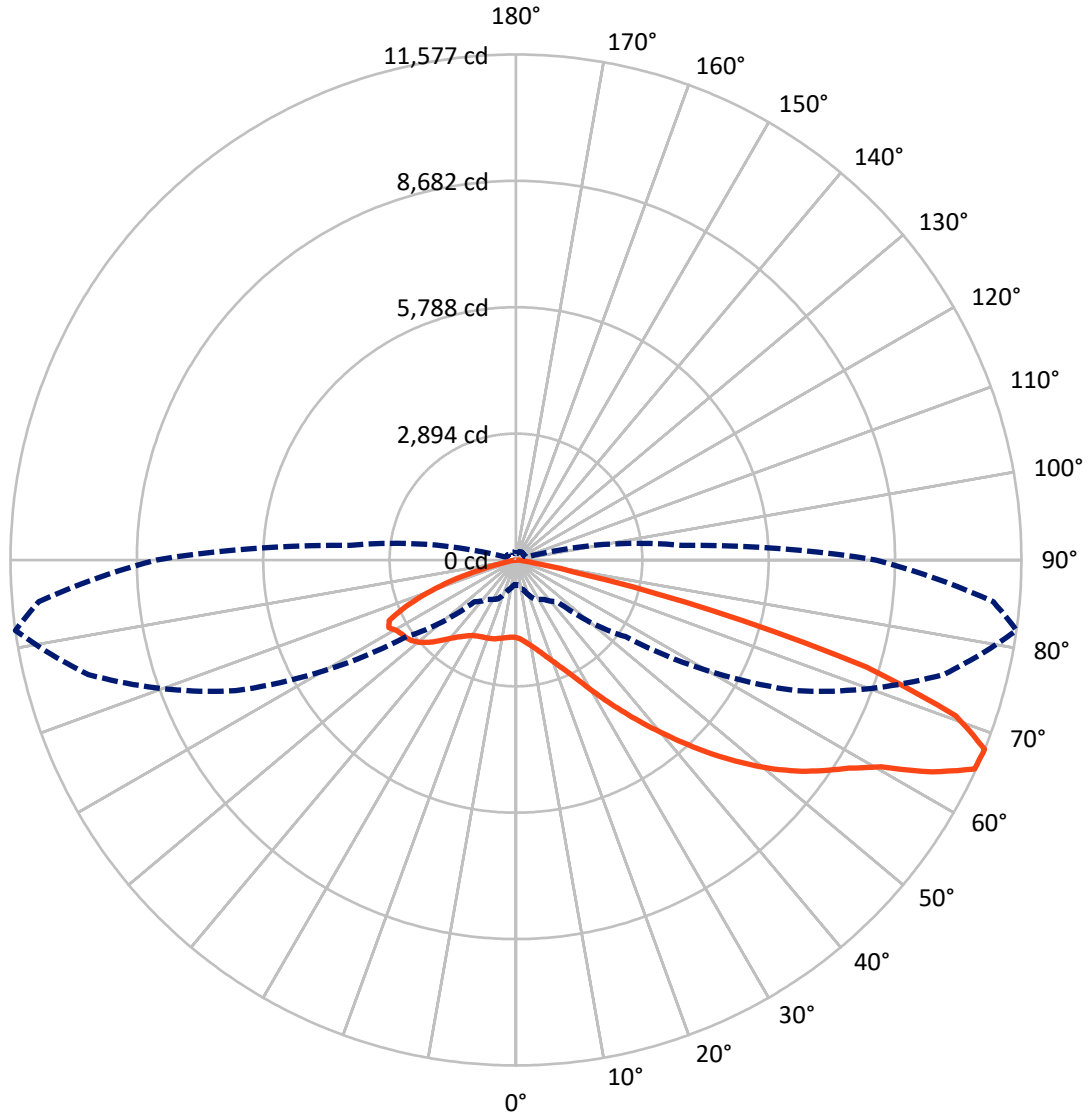
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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	1943.3	0.0	1943.3
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	8784.7	0.0	8784.7
	% Fixture	81.9	0.0	81.9
Total	Lumens	10728.0	0.0	10728.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.3	1.5
10°-20°	411.5	3.8
20°-30°	659.0	6.1
30°-40°	1165.4	10.9
40°-50°	2041.9	19.0
50°-60°	2723.3	25.4
60°-70°	2535.2	23.6
70°-80°	973.0	9.1
80°-90°	60.4	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°	10728.0	100.0
0°-180°	10728.0	100.0

Coefficient of Utilization



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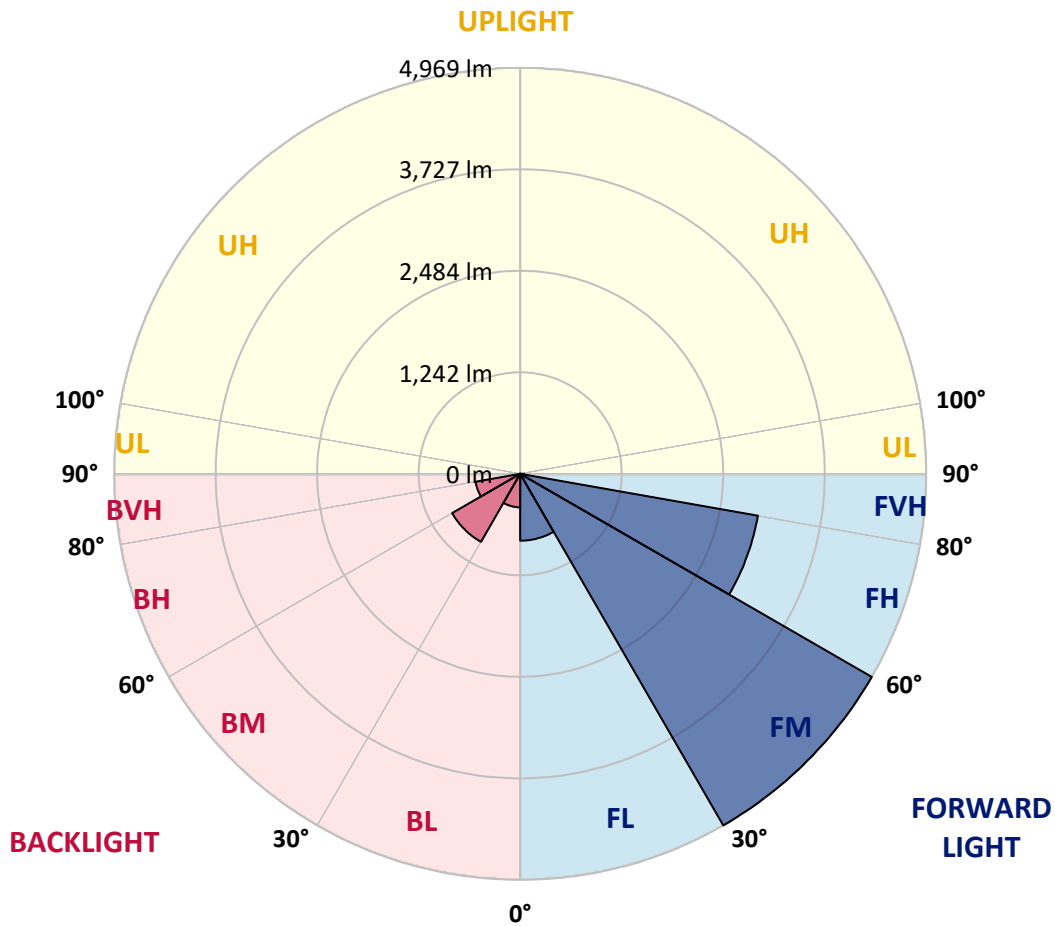
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	818.4	7.6			
FM (30°-60°)	4968.8	46.3			
FH (60°-80°)	2953.6	27.5			G2/5000
FVH (80°-90°)	43.9	0.4			G1/100
BL (0°-30°)	410.4	3.8	B1/500		
BM (30°-60°)	961.7	9.0	B1/1000		
BH (60°-80°)	554.6	5.2	B2/1000		G2/1000
BVH (80°-90°)	16.5	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°	1777.3	1777.3	1777.3	1777.3	1777.3	1777.3	1777.3	1777.3	1777.3	1777.3
2.5°	1878.4	1889.3	1883.1	1880.0	1874.6	1866.9	1860.7	1841.4	1821.3	1808.2
5°	1916.3	1927.1	1926.3	1929.4	1933.3	1935.6	1934.1	1912.4	1883.9	1861.5
7.5°	1883.9	1896.2	1906.3	1921.7	1948.7	1977.3	1991.2	1986.6	1957.2	1926.3
10°	1791.9	1805.1	1829.0	1865.3	1922.5	1984.3	2036.0	2060.0	2041.4	2007.4
12.5°	1623.6	1636.7	1683.8	1762.6	1858.4	1965.7	2064.6	2128.7	2133.3	2099.4
15°	1434.3	1447.5	1497.7	1596.5	1742.5	1914.8	2080.0	2201.3	2242.2	2212.9
17.5°	1316.9	1328.5	1366.4	1445.9	1598.1	1812.8	2074.6	2278.5	2372.0	2348.8
20°	1281.4	1291.4	1309.2	1364.8	1491.5	1707.0	2039.1	2351.2	2511.8	2498.7
22.5°	1319.2	1328.5	1333.9	1358.6	1438.2	1637.5	1994.3	2425.3	2674.0	2675.6
25°	1406.5	1415.8	1409.6	1425.1	1459.8	1615.8	1977.3	2512.6	2877.9	2894.9
27.5°	1550.2	1551.0	1536.3	1535.5	1540.9	1648.3	1995.1	2606.0	3135.1	3166.8
30°	1838.3	1826.7	1770.3	1709.3	1681.5	1745.6	2044.5	2716.5	3438.7	3495.1
32.5°	2282.4	2265.4	2161.9	2015.9	1869.2	1902.4	2133.3	2842.4	3769.3	3871.2
35°	2764.4	2759.7	2651.6	2434.6	2178.1	2125.6	2277.8	3007.7	4130.0	4292.2
37.5°	3212.4	3210.0	3148.3	2892.6	2580.6	2436.9	2509.5	3224.0	4516.2	4751.0
40°	3621.7	3628.7	3566.9	3338.3	3023.9	2836.2	2824.6	3491.2	4945.6	5250.7
42.5°	3975.5	3983.2	3920.6	3751.5	3461.8	3278.0	3211.6	3818.7	5365.0	5787.5
45°	4215.7	4263.6	4254.3	4119.1	3911.4	3720.6	3676.6	4229.6	5843.1	6356.8
47.5°	4283.7	4327.7	4397.2	4415.7	4289.1	4101.4	4153.9	4724.7	6326.6	6926.8
50°	4116.1	4157.0	4301.4	4493.8	4581.8	4523.9	4618.1	5255.3	6821.7	7495.3
52.5°	3785.5	3827.2	4009.5	4313.8	4673.0	4855.2	5083.9	5778.2	7301.4	8033.6
55°	3307.4	3351.4	3585.4	3929.9	4499.2	4991.9	5472.4	6300.4	7740.9	8517.9
57.5°	2657.0	2689.5	2932.8	3414.7	4062.0	4856.0	5758.9	6870.4	8154.9	8993.7
60°	1731.7	1760.3	2043.0	2580.6	3337.5	4401.8	5816.1	7506.1	8704.8	9612.4
62.5°	1151.6	1170.9	1338.5	1733.2	2350.4	3529.8	5481.6	8013.5	9511.2	10689.1
65°	790.2	809.5	977.1	1252.0	1518.5	2334.9	4520.0	7946.3	10241.9	11544.1
67.5°	563.8	580.1	722.2	981.7	1099.1	1356.3	3064.1	7087.4	10136.8	11576.6
70°	404.0	413.2	530.6	764.7	873.6	814.9	1703.9	5420.6	8875.5	10689.9
72.5°	282.7	285.8	368.4	582.4	703.6	594.7	811.0	3614.0	6712.8	8390.5
75°	191.6	195.4	247.9	427.1	564.6	454.2	429.4	1937.9	3940.7	4644.4
77.5°	117.4	118.9	159.9	292.0	422.5	346.0	276.5	821.0	1524.7	1496.9
80°	66.4	66.4	102.0	181.5	288.1	223.2	193.9	349.1	482.7	424.0
82.5°	37.1	37.8	74.1	112.8	190.8	132.1	106.6	161.4	208.5	184.6
85°	15.4	17.0	45.6	53.3	91.1	65.7	43.3	68.0	77.2	68.7
87.5°	1.5	2.3	13.9	10.0	10.8	13.1	6.2	13.1	10.8	10.8
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°
1777.3	0°	1777.3	1777.3	1777.3	1777.3	1777.3	1777.3	1777.3	1777.3	1777.3	1777.3
1803.5	2.5°	1788.9	1777.3	1747.9	1713.9	1669.1	1647.5	1618.2	1598.1	1581.1	1582.6
1848.3	5°	1823.6	1794.3	1728.6	1646.7	1544.8	1472.2	1394.9	1341.6	1298.4	1289.1
1910.1	7.5°	1871.5	1825.2	1710.1	1562.5	1390.3	1259.8	1143.1	1068.2	1014.9	997.9
1985.0	10°	1933.3	1866.1	1686.1	1456.7	1208.8	1042.7	917.6	858.9	822.6	810.2
2073.1	12.5°	2005.1	1913.2	1654.5	1327.7	1021.9	862.0	782.4	753.1	741.5	737.6
2181.2	15°	2095.5	1971.9	1606.6	1174.8	863.5	751.5	717.5	713.7	715.2	713.7
2311.0	17.5°	2202.9	2036.0	1528.6	1017.2	756.9	695.1	682.8	685.9	689.7	689.0
2456.2	20°	2320.3	2099.4	1428.9	877.4	684.3	655.0	648.0	651.1	654.2	652.7
2623.8	22.5°	2453.9	2167.3	1318.5	768.5	635.7	617.9	610.2	611.0	611.0	607.9
2836.2	25°	2613.8	2242.2	1202.6	691.3	598.6	584.7	575.4	572.3	567.7	558.4
3094.2	27.5°	2804.5	2321.8	1091.4	637.2	569.3	556.1	545.3	537.6	526.0	510.5
3403.9	30°	3019.3	2418.3	997.2	603.2	546.1	532.9	520.6	509.0	492.0	472.7
3760.0	32.5°	3271.8	2521.8	928.4	580.8	525.2	511.3	496.6	482.7	464.2	444.9
4160.1	35°	3573.1	2647.0	888.2	565.4	509.0	490.5	474.2	458.8	444.9	427.9
4594.9	37.5°	3899.8	2779.8	875.9	557.7	498.2	469.6	451.1	440.3	438.7	428.7
5065.3	40°	4257.4	2937.4	885.2	553.0	486.6	449.5	429.4	427.1	431.0	413.2
5568.2	42.5°	4635.9	3124.3	900.6	547.6	470.4	429.4	410.1	410.1	407.0	382.3
6099.6	45°	5045.2	3339.8	916.1	534.5	451.1	409.4	394.7	389.3	376.2	352.2
6634.0	47.5°	5457.7	3559.2	927.6	510.5	427.9	392.4	379.2	366.9	347.6	325.9
7158.5	50°	5849.3	3756.1	915.3	475.0	401.6	376.2	362.3	345.3	324.4	309.7
7655.1	52.5°	6199.2	3926.8	862.8	433.3	373.8	359.2	346.8	329.0	312.0	296.6
8103.1	55°	6503.5	4065.1	770.1	393.9	349.1	344.5	332.1	309.7	286.6	273.4
8547.3	57.5°	6795.5	4170.1	654.2	361.5	326.7	328.3	309.7	289.6	268.0	254.1
9145.9	60°	7184.0	4310.7	536.8	331.4	302.8	307.4	287.3	272.7	245.6	227.9
10172.4	62.5°	7805.0	4529.3	426.4	294.3	275.0	276.5	268.0	250.3	217.8	197.0
10933.2	65°	8297.8	4449.0	336.0	254.1	243.3	245.6	245.6	226.3	191.6	167.6
10974.1	67.5°	8242.2	3809.4	268.0	214.7	213.2	214.7	220.1	203.9	169.9	150.6
10138.4	70°	7592.6	3030.1	214.7	178.4	185.4	181.5	197.0	186.1	152.9	133.6
7859.8	72.5°	6195.3	2182.8	163.7	147.5	142.1	148.3	177.6	167.6	127.4	105.8
4163.2	75°	3620.2	1164.8	122.0	116.6	102.7	123.6	157.6	142.9	97.3	78.0
1276.0	77.5°	1178.7	406.3	89.6	85.7	76.5	99.6	134.4	120.5	79.6	61.8
373.8	80°	315.9	122.8	61.0	56.4	49.4	74.1	106.6	95.8	57.2	40.2
160.7	82.5°	126.7	51.8	35.5	31.7	27.0	51.0	84.2	77.2	42.5	25.5
50.2	85°	40.9	17.0	13.1	10.0	12.4	31.7	50.2	52.5	30.1	13.1
7.7	87.5°	5.4	2.3	2.3	3.1	2.3	5.4	15.4	14.7	8.5	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

180°
1777.3
1567.2
1268.3
980.9
801.0
735.3
712.9
687.4
651.9
606.3
556.9
509.0
471.2
445.7
426.4
427.9
414.0
382.3
351.4
325.2
307.4
295.1
271.9
252.6
225.5
195.4
165.3
147.5
131.3
103.5
75.7
59.5
39.4
25.5
10.0
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