

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: P947238

Luminaire Tested: **GALN-SB2C-927-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947238
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-SB2C-927-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9285 lumens
Efficiency: N/A
Efficacy: 92.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

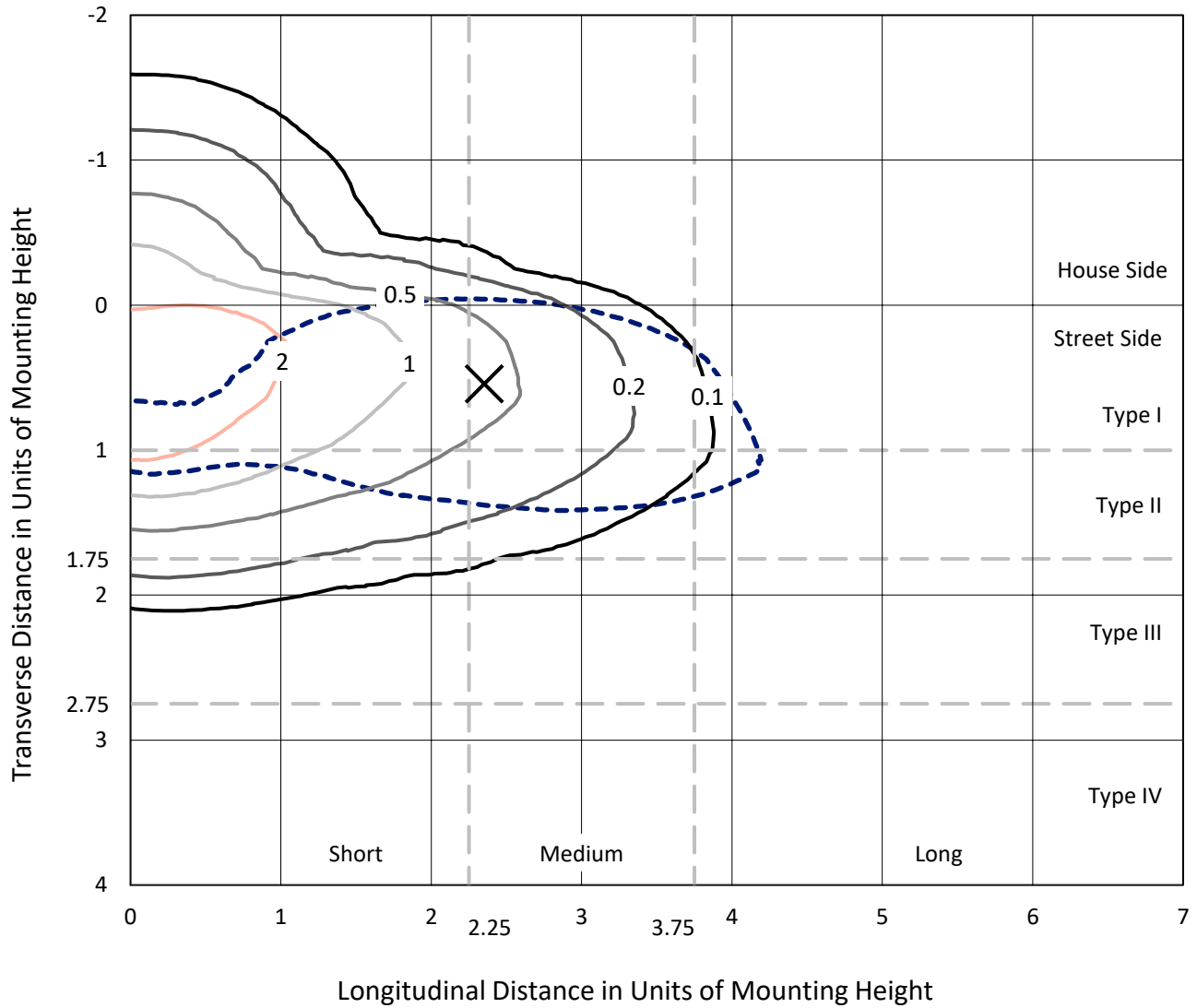
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

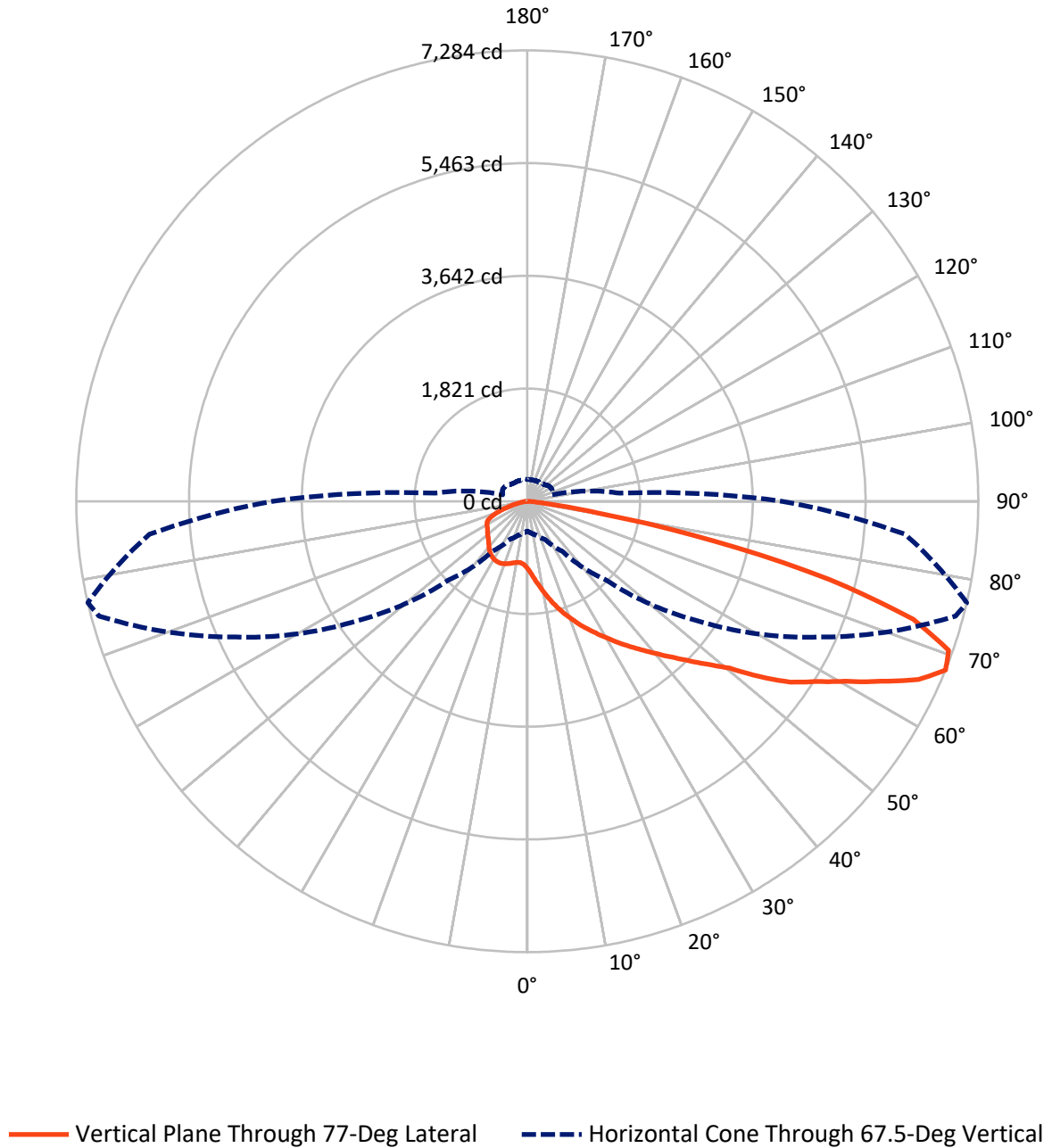
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1756.4	0.0	1756.4
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	7528.6	0.0	7528.6
	% Fixture	81.1	0.0	81.1
Total	Lumens	9285.0	0.0	9285.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.8	1.3
10°-20°	419.5	4.5
20°-30°	792.1	8.5
30°-40°	1276.0	13.7
40°-50°	1745.4	18.8
50°-60°	1968.8	21.2
60°-70°	1837.6	19.8
70°-80°	1007.3	10.8
80°-90°	121.5	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°	9285.0	100.0
0°-180°	9285.0	100.0

Coefficient of Utilization



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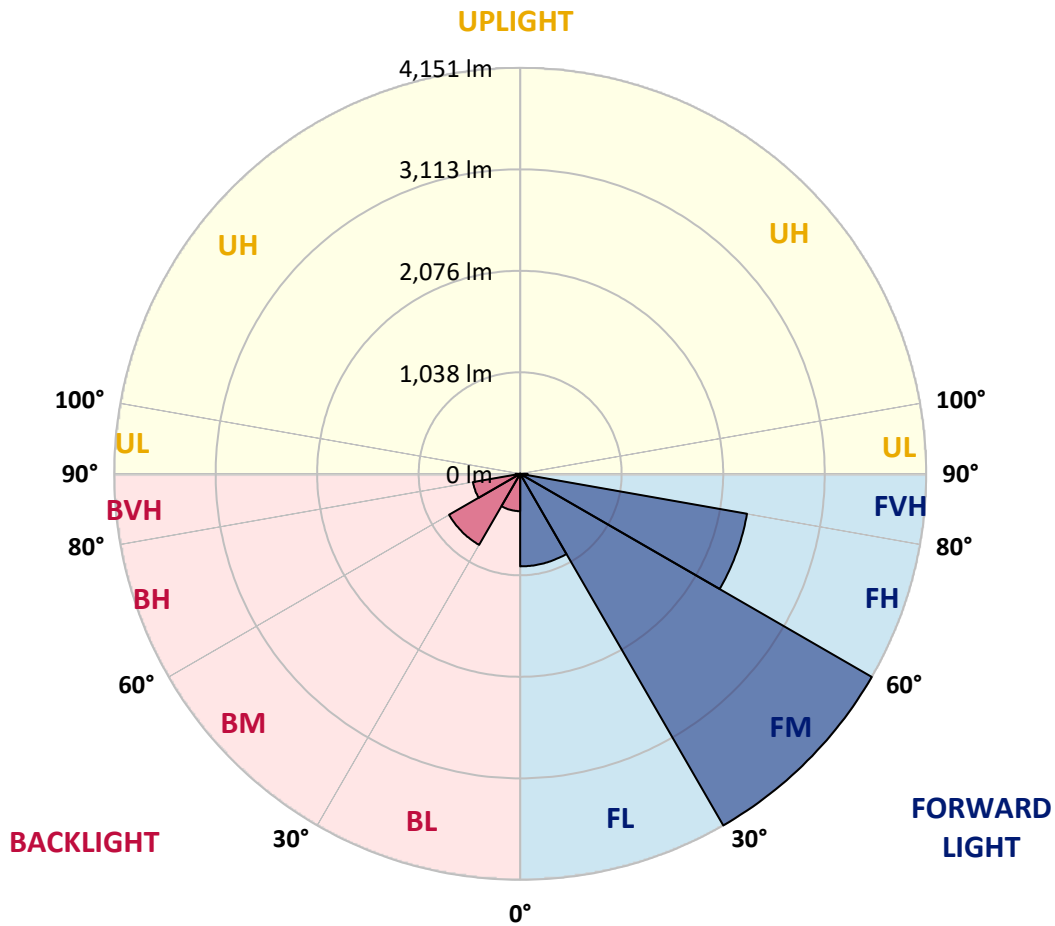
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	946.5	10.2			
FM (30°-60°)	4151.2	44.7			
FH (60°-80°)	2354.9	25.4			G2/5000
FVH (80°-90°)	76.0	0.8			G1/100
BL (0°-30°)	381.9	4.1	B1/500		
BM (30°-60°)	839.0	9.0	B1/1000		
BH (60°-80°)	490.0	5.3	B1/500		G1/500
BVH (80°-90°)	45.5	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1089.4	1089.4	1089.4	1089.4	1089.4	1089.4	1089.4	1089.4	1089.4	1089.4
2.5°	1364.1	1373.6	1361.7	1361.7	1321.4	1300.3	1260.0	1229.4	1174.3	1164.7
5°	1612.3	1624.3	1607.5	1600.3	1552.9	1509.3	1441.7	1375.1	1276.8	1266.8
7.5°	1804.5	1819.9	1805.0	1797.3	1755.1	1706.3	1627.2	1534.2	1395.7	1376.0
10°	1961.2	1963.6	1958.8	1961.7	1928.7	1888.4	1807.4	1699.1	1526.0	1499.2
12.5°	2049.9	2060.9	2070.5	2087.8	2082.0	2057.1	1984.2	1854.8	1664.1	1629.6
15°	2091.6	2110.8	2132.3	2172.1	2204.2	2210.5	2154.9	2022.1	1804.5	1762.8
17.5°	2106.5	2124.7	2158.7	2216.2	2285.2	2331.7	2306.8	2184.6	1943.5	1895.6
20°	2181.7	2187.0	2207.6	2262.2	2337.0	2414.2	2432.9	2340.8	2081.1	2026.9
22.5°	2342.8	2332.2	2338.0	2362.9	2416.6	2491.3	2534.0	2478.9	2222.5	2160.1
25°	2608.8	2578.1	2547.4	2518.7	2546.0	2588.1	2636.6	2616.9	2370.6	2291.5
27.5°	2944.7	2907.4	2839.8	2745.4	2712.3	2727.1	2748.7	2744.9	2507.6	2427.6
30°	3275.4	3231.8	3151.3	3014.7	2927.5	2888.2	2871.9	2860.9	2656.7	2571.4
32.5°	3539.5	3505.0	3425.9	3273.0	3146.5	3079.4	3025.3	2986.0	2812.5	2727.1
35°	3770.5	3738.4	3647.9	3481.1	3343.5	3272.1	3201.2	3117.3	2974.5	2888.2
37.5°	3981.4	3949.3	3825.2	3651.7	3513.2	3463.8	3400.5	3258.2	3136.9	3055.5
40°	4114.7	4107.5	3991.5	3795.0	3651.2	3626.8	3605.7	3421.6	3317.1	3241.4
42.5°	4148.7	4164.5	4072.5	3911.0	3773.9	3754.3	3803.6	3606.6	3519.4	3447.0
45°	4066.7	4112.3	4051.9	3942.1	3861.1	3850.6	3979.0	3808.9	3743.2	3677.1
47.5°	3859.2	3936.4	3911.5	3896.1	3884.6	3930.2	4133.4	4023.6	3996.8	3939.3
50°	3440.3	3586.5	3630.1	3726.9	3838.1	3992.0	4273.8	4258.0	4293.0	4235.0
52.5°	2716.1	2917.4	3170.5	3413.0	3695.3	3971.4	4428.1	4594.4	4742.1	4710.4
55°	2242.1	2332.7	2527.3	2972.1	3418.3	3884.6	4497.6	4866.2	5187.8	5159.5
57.5°	1877.8	1958.8	2078.7	2450.1	2999.4	3687.6	4540.8	5032.0	5493.1	5490.2
60°	1487.2	1573.0	1695.7	1958.8	2510.0	3347.3	4531.2	5220.9	5882.8	5906.7
62.5°	1046.3	1140.7	1276.8	1522.2	2010.1	2906.4	4335.6	5357.5	6341.4	6406.6
65°	687.8	750.1	852.7	1064.5	1497.8	2339.4	3962.3	5375.2	6832.2	6942.5
67.5°	482.2	506.1	566.5	681.5	987.3	1794.0	3367.5	5191.6	7159.6	7283.7
70°	376.2	388.2	418.9	464.9	620.2	1206.4	2580.5	4714.3	7089.6	7219.0
72.5°	325.0	336.5	348.0	353.7	416.0	744.8	1748.0	3941.7	6430.6	6518.3
75°	294.8	297.6	307.2	305.3	317.3	483.1	1008.9	2871.9	5073.7	5043.5
77.5°	247.8	251.6	267.4	265.0	281.8	330.2	523.9	1853.4	3289.3	3084.2
80°	209.9	211.8	229.1	226.2	244.9	239.2	267.4	944.7	1395.2	1181.9
82.5°	72.9	90.1	174.9	180.2	186.9	144.7	154.3	385.3	426.1	326.4
85°	35.5	37.9	89.1	126.5	126.1	72.9	75.2	137.6	134.2	105.4
87.5°	5.8	7.2	10.5	49.4	39.3	19.2	25.9	26.8	27.8	24.0
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°
1089.4	0°	1089.4	1089.4	1089.4	1089.4	1089.4	1089.4	1089.4	1089.4	1089.4	1089.4
1128.2	2.5°	1101.4	1077.4	1027.1	980.6	944.2	909.2	889.6	872.8	863.2	861.3
1181.0	5°	1131.1	1081.8	990.2	913.0	862.7	825.3	805.7	793.2	787.0	783.2
1251.9	7.5°	1173.8	1101.4	971.0	883.3	830.6	803.8	793.7	791.8	791.3	791.8
1337.7	10°	1232.7	1133.5	969.1	876.1	832.0	817.2	816.7	817.2	819.1	819.6
1431.2	12.5°	1296.5	1166.6	976.8	882.4	850.3	842.1	840.7	840.2	841.6	842.6
1525.6	15°	1366.0	1210.2	989.7	895.8	870.4	861.8	860.3	857.4	857.0	856.5
1624.8	17.5°	1437.4	1253.3	1004.1	910.2	883.3	871.3	866.1	859.4	854.1	852.7
1727.3	20°	1509.8	1296.0	1014.2	917.4	884.3	867.5	857.0	845.5	836.4	831.1
1830.9	22.5°	1586.9	1340.6	1020.4	915.4	875.7	852.7	833.5	820.1	806.2	797.1
1935.4	25°	1662.2	1379.4	1019.9	905.4	858.9	829.6	805.2	787.9	768.8	759.2
2043.2	27.5°	1734.5	1414.4	1007.9	887.6	834.9	802.3	773.1	752.5	733.8	724.7
2152.0	30°	1809.3	1443.6	989.2	861.8	806.6	770.7	738.6	720.8	704.1	695.4
2267.0	32.5°	1883.6	1470.5	962.9	829.6	774.0	739.5	707.9	691.6	681.5	681.5
2390.7	35°	1962.2	1489.1	927.9	792.3	739.5	706.5	681.5	672.0	671.0	665.3
2521.5	37.5°	2045.1	1501.1	885.2	753.9	705.5	674.4	666.7	655.2	645.6	633.1
2665.3	40°	2132.3	1513.1	834.0	714.1	669.6	652.3	649.0	633.6	606.3	575.6
2828.3	42.5°	2238.3	1521.3	780.8	674.4	631.7	625.9	630.7	604.4	560.8	537.8
3024.8	45°	2361.0	1534.7	731.9	635.1	592.9	592.9	613.0	578.5	542.6	528.2
3249.1	47.5°	2520.1	1565.8	686.3	591.9	556.9	566.5	573.7	547.3	527.2	509.5
3522.3	50°	2750.1	1640.6	639.4	548.3	529.6	548.8	538.7	523.4	499.9	485.5
3956.5	52.5°	3035.8	1684.7	597.7	509.0	506.1	525.3	510.9	496.5	478.8	459.6
4285.8	55°	3230.4	1692.8	562.7	480.2	490.3	488.4	483.1	470.2	460.6	435.2
4610.7	57.5°	3448.0	1709.1	533.9	463.0	480.2	459.2	457.2	446.2	433.8	416.5
5007.1	60°	3708.2	1734.5	509.0	456.3	471.6	440.0	430.4	426.1	413.6	405.0
5484.0	62.5°	3992.0	1757.5	483.6	457.2	461.6	421.3	406.9	405.5	397.8	394.9
5931.7	65°	4185.6	1694.8	452.0	456.3	445.7	402.1	383.9	383.4	377.2	376.2
6125.8	67.5°	4118.0	1495.9	409.3	442.9	429.4	383.0	362.8	360.9	352.8	353.2
5923.0	70°	3779.7	1212.1	350.4	409.8	409.3	365.7	340.8	334.5	323.5	325.4
5149.9	72.5°	3145.1	898.2	271.3	354.7	377.2	349.9	315.4	305.3	291.4	293.3
3801.7	75°	2271.3	610.6	197.5	269.8	328.3	331.2	290.4	273.2	256.4	259.3
2116.1	77.5°	1162.3	346.0	145.2	186.0	257.9	301.0	267.9	244.9	241.1	267.9
610.1	80°	379.1	173.5	100.7	130.4	169.2	246.4	234.9	208.5	207.5	213.8
128.0	82.5°	113.1	73.3	64.7	85.8	93.5	188.8	202.7	157.7	135.6	142.8
42.7	85°	38.8	35.5	36.9	42.7	44.6	110.7	141.9	104.5	98.7	108.8
9.6	87.5°	9.1	12.5	10.5	9.6	9.6	26.8	55.1	43.6	60.4	40.3
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°
1089.4
861.3
782.7
793.2
820.1
843.1
856.0
854.1
833.0
797.5
759.2
724.2
695.0
682.0
663.8
631.2
571.3
538.2
530.6
509.0
484.1
455.8
435.7
410.7
407.4
394.9
375.8
353.2
327.4
292.8
260.3
264.1
183.6
147.6
107.4
38.8
0.0

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