

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: P946587

Luminaire Tested: **GALN-SB2A-940-U-T2R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946587  
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-SB2A-940-U-T2R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

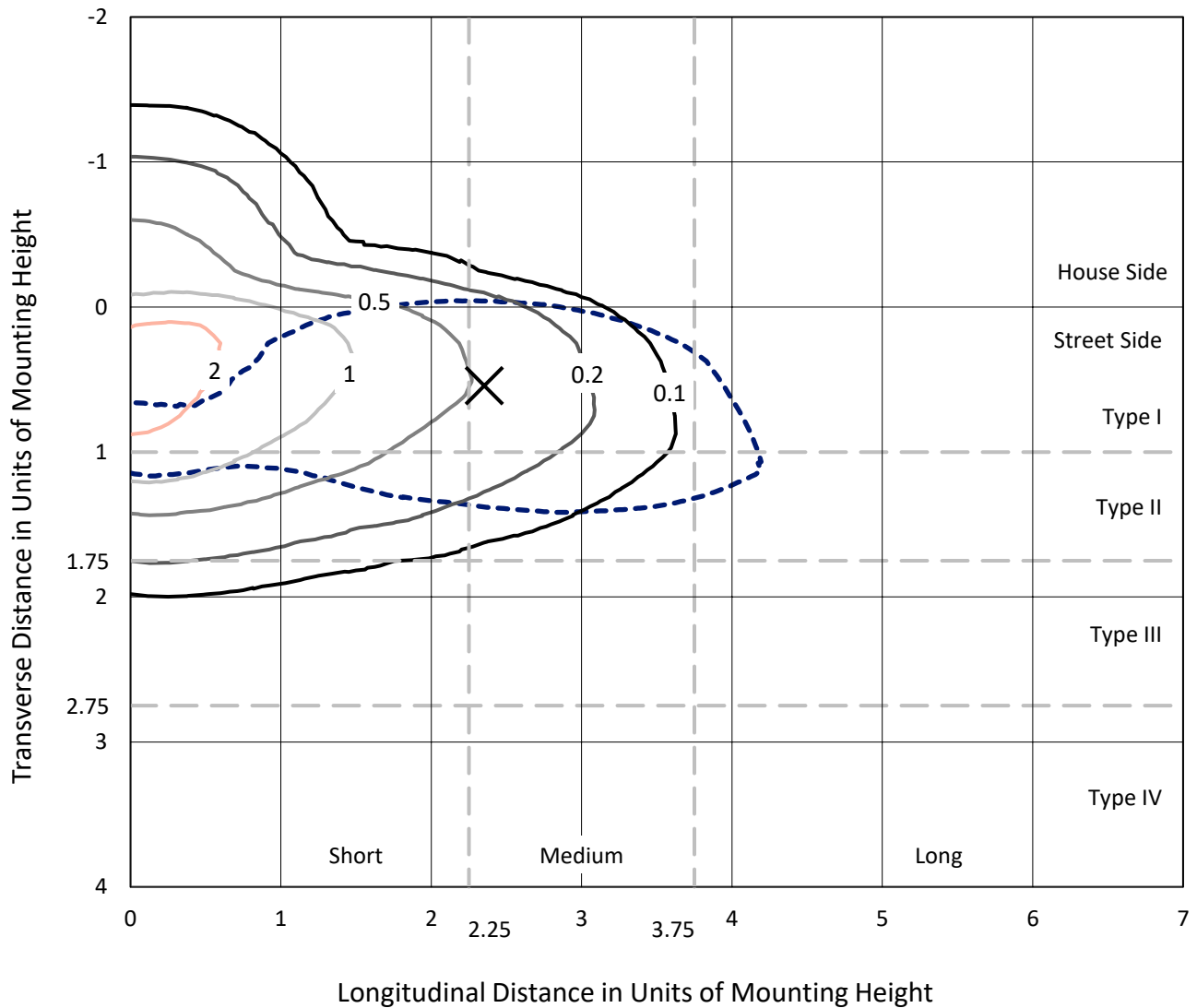
Lumens per Lamp: N/A  
Luminaire Lumens: 6621 lumens  
Efficiency: N/A  
Efficacy: 115.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 57.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

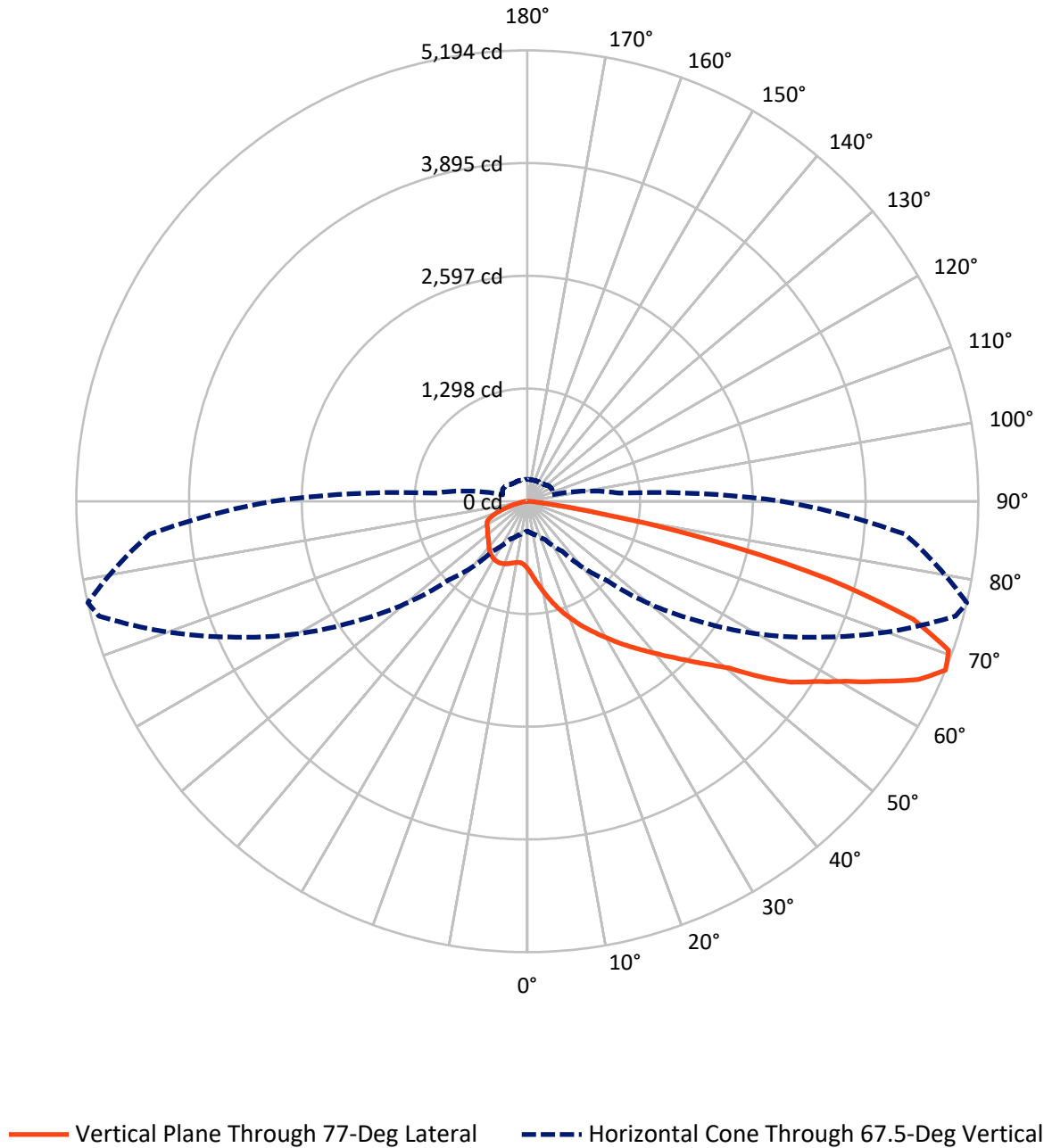
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1252.4	0.0	1252.4
	% Fixture	18.9	0.0	18.9
<b>Street Side</b>	Lumens	5368.6	0.0	5368.6
	% Fixture	81.1	0.0	81.1
<b>Total</b>	Lumens	6621.0	0.0	6621.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.3	1.3
10°-20°	299.1	4.5
20°-30°	564.8	8.5
30°-40°	909.9	13.7
40°-50°	1244.6	18.8
50°-60°	1403.9	21.2
60°-70°	1310.4	19.8
70°-80°	718.3	10.8
80°-90°	86.6	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°	6621.0	100.0
0°-180°	6621.0	100.0

**Coefficient of Utilization**



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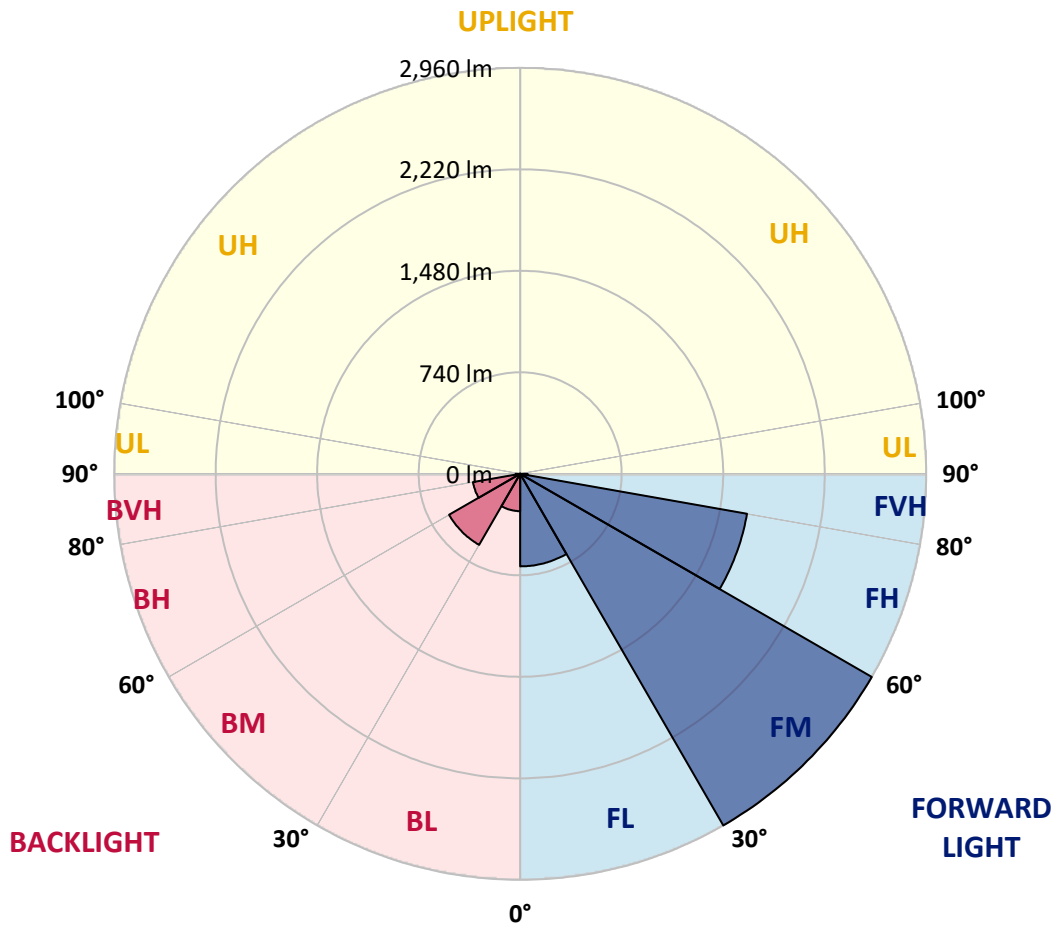
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	674.9	10.2			
FM (30°-60°)	2960.2	44.7			
FH (60°-80°)	1679.3	25.4			G1/1800
FVH (80°-90°)	54.2	0.8			G1/100
BL (0°-30°)	272.3	4.1	B1/500		
BM (30°-60°)	598.3	9.0	B1/1000		
BH (60°-80°)	349.4	5.3	B1/500		G1/500
BVH (80°-90°)	32.5	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-G1**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	776.8	776.8	776.8	776.8	776.8	776.8	776.8	776.8	776.8	776.8
2.5°	972.7	979.5	971.0	971.0	942.3	927.2	898.5	876.6	837.3	830.5
5°	1149.7	1158.3	1146.3	1141.2	1107.3	1076.2	1028.1	980.5	910.5	903.3
7.5°	1286.8	1297.7	1287.1	1281.6	1251.6	1216.7	1160.3	1094.0	995.2	981.2
10°	1398.5	1400.2	1396.8	1398.9	1375.3	1346.6	1288.8	1211.6	1088.2	1069.1
12.5°	1461.8	1469.6	1476.5	1488.8	1484.7	1466.9	1414.9	1322.7	1186.6	1162.0
15°	1491.5	1505.2	1520.5	1548.9	1571.8	1576.3	1536.6	1441.9	1286.8	1257.0
17.5°	1502.1	1515.1	1539.3	1580.4	1629.6	1662.7	1645.0	1557.8	1385.9	1351.7
20°	1555.7	1559.5	1574.2	1613.2	1666.5	1721.5	1734.8	1669.2	1484.0	1445.4
22.5°	1670.6	1663.1	1667.2	1684.9	1723.2	1776.5	1807.0	1767.6	1584.8	1540.4
25°	1860.3	1838.4	1816.5	1796.0	1815.5	1845.6	1880.1	1866.1	1690.4	1634.0
27.5°	2099.9	2073.2	2025.0	1957.7	1934.1	1944.7	1960.1	1957.3	1788.2	1731.1
30°	2335.7	2304.6	2247.2	2149.7	2087.5	2059.5	2047.9	2040.0	1894.4	1833.6
32.5°	2524.0	2499.4	2443.0	2334.0	2243.7	2195.9	2157.3	2129.2	2005.5	1944.7
35°	2688.7	2665.8	2601.2	2482.3	2384.2	2333.3	2282.7	2222.9	2121.0	2059.5
37.5°	2839.1	2816.2	2727.7	2604.0	2505.2	2470.0	2424.9	2323.4	2236.9	2178.8
40°	2934.1	2929.0	2846.3	2706.2	2603.6	2586.2	2571.2	2439.9	2365.4	2311.4
42.5°	2958.4	2969.7	2904.0	2788.9	2691.1	2677.1	2712.3	2571.8	2509.6	2458.0
45°	2899.9	2932.4	2889.3	2811.1	2753.3	2745.8	2837.4	2716.1	2669.2	2622.1
47.5°	2752.0	2807.0	2789.2	2778.3	2770.1	2802.5	2947.4	2869.2	2850.0	2809.0
50°	2453.2	2557.5	2588.6	2657.6	2736.9	2846.6	3047.6	3036.3	3061.3	3019.9
52.5°	1936.8	2080.4	2260.8	2433.8	2635.1	2831.9	3157.6	3276.2	3381.5	3358.9
55°	1598.8	1663.4	1802.2	2119.3	2437.5	2770.1	3207.2	3470.0	3699.3	3679.2
57.5°	1339.1	1396.8	1482.3	1747.1	2138.8	2629.6	3238.0	3588.3	3917.1	3915.0
60°	1060.5	1121.7	1209.2	1396.8	1789.9	2386.9	3231.1	3722.9	4194.9	4212.0
62.5°	746.1	813.4	910.5	1085.5	1433.4	2072.5	3091.7	3820.3	4522.0	4568.5
65°	490.4	534.9	608.0	759.1	1068.0	1668.2	2825.4	3833.0	4872.0	4950.6
67.5°	343.8	360.9	404.0	486.0	704.1	1279.3	2401.3	3702.1	5105.4	5193.9
70°	268.3	276.8	298.7	331.5	442.3	860.2	1840.1	3361.7	5055.5	5147.8
72.5°	231.7	239.9	248.1	252.2	296.7	531.1	1246.4	2810.7	4585.6	4648.1
75°	210.2	212.2	219.1	217.7	226.3	344.5	719.4	2047.9	3618.0	3596.5
77.5°	176.7	179.4	190.7	189.0	201.0	235.5	373.6	1321.6	2345.6	2199.3
80°	149.7	151.1	163.4	161.3	174.6	170.5	190.7	673.6	994.9	842.8
82.5°	51.9	64.3	124.7	128.5	133.3	103.2	110.1	274.8	303.8	232.7
85°	25.3	27.0	63.6	90.2	89.9	51.9	53.7	98.1	95.7	75.2
87.5°	4.1	5.1	7.5	35.2	28.0	13.7	18.5	19.1	19.8	17.1
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°
776.8	0°	776.8	776.8	776.8	776.8	776.8	776.8	776.8	776.8	776.8	776.8
804.5	2.5°	785.4	768.3	732.4	699.3	673.3	648.3	634.3	622.4	615.5	614.2
842.1	5°	806.6	771.4	706.1	651.1	615.2	588.5	574.5	565.6	561.2	558.5
892.7	7.5°	837.0	785.4	692.4	629.9	592.3	573.2	566.0	564.6	564.3	564.6
953.9	10°	879.0	808.3	691.1	624.8	593.3	582.7	582.4	582.7	584.1	584.4
1020.5	12.5°	924.5	831.9	696.5	629.2	606.3	600.5	599.5	599.1	600.2	600.8
1087.9	15°	974.1	863.0	705.8	638.8	620.7	614.5	613.5	611.4	611.1	610.7
1158.6	17.5°	1025.0	893.7	716.0	649.0	629.9	621.3	617.6	612.8	609.0	608.0
1231.7	20°	1076.6	924.2	723.2	654.2	630.6	618.6	611.1	602.9	596.4	592.6
1305.6	22.5°	1131.6	955.9	727.6	652.8	624.4	608.0	594.3	584.8	574.9	568.4
1380.1	25°	1185.3	983.6	727.3	645.6	612.5	591.6	574.2	561.9	548.2	541.4
1457.0	27.5°	1236.9	1008.6	718.7	633.0	595.4	572.1	551.3	536.6	523.3	516.8
1534.6	30°	1290.2	1029.4	705.4	614.5	575.2	549.6	526.7	514.0	502.1	495.9
1616.6	32.5°	1343.2	1048.6	686.6	591.6	552.0	527.4	504.8	493.2	486.0	486.0
1704.8	35°	1399.2	1061.9	661.7	565.0	527.4	503.8	486.0	479.2	478.5	474.4
1798.1	37.5°	1458.3	1070.4	631.3	537.6	503.1	480.9	475.4	467.2	460.4	451.5
1900.6	40°	1520.5	1079.0	594.7	509.2	477.5	465.2	462.8	451.8	432.3	410.5
2016.8	42.5°	1596.1	1084.8	556.7	480.9	450.5	446.4	449.8	431.0	399.9	383.5
2156.9	45°	1683.6	1094.4	521.9	452.8	422.8	422.8	437.1	412.5	386.9	376.6
2316.9	47.5°	1797.0	1116.6	489.4	422.1	397.1	404.0	409.1	390.3	375.9	363.3
2511.7	50°	1961.1	1169.9	455.9	391.0	377.7	391.3	384.2	373.2	356.5	346.2
2821.3	52.5°	2164.8	1201.3	426.2	363.0	360.9	374.6	364.3	354.1	341.4	327.8
3056.1	55°	2303.5	1207.1	401.2	342.5	349.6	348.3	344.5	335.3	328.4	310.3
3287.9	57.5°	2458.7	1218.8	380.7	330.2	342.5	327.4	326.1	318.2	309.3	297.0
3570.5	60°	2644.3	1236.9	363.0	325.4	336.3	313.7	306.9	303.8	294.9	288.8
3910.6	62.5°	2846.6	1253.3	344.8	326.1	329.1	300.4	290.2	289.1	283.7	281.6
4229.8	65°	2984.7	1208.5	322.3	325.4	317.8	286.7	273.8	273.4	269.0	268.3
4368.2	67.5°	2936.5	1066.7	291.9	315.8	306.2	273.1	258.7	257.4	251.5	251.9
4223.6	70°	2695.2	864.3	249.8	292.2	291.9	260.8	243.0	238.6	230.7	232.1
3672.3	72.5°	2242.7	640.5	193.4	252.9	269.0	249.5	224.9	217.7	207.8	209.2
2710.9	75°	1619.7	435.4	140.8	192.4	234.1	236.2	207.1	194.8	182.8	184.9
1508.9	77.5°	828.8	246.8	103.6	132.6	183.9	214.6	191.1	174.6	171.9	191.1
435.1	80°	270.3	123.7	71.8	93.0	120.6	175.7	167.5	148.7	148.0	152.4
91.3	82.5°	80.7	52.3	46.1	61.2	66.6	134.7	144.6	112.4	96.7	101.8
30.4	85°	27.7	25.3	26.3	30.4	31.8	78.9	101.2	74.5	70.4	77.6
6.8	87.5°	6.5	8.9	7.5	6.8	6.8	19.1	39.3	31.1	43.1	28.7
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>
776.8
614.2
558.1
565.6
584.8
601.2
610.4
609.0
594.0
568.7
541.4
516.4
495.6
486.3
473.4
450.1
407.4
383.8
378.3
363.0
345.2
325.0
310.7
292.9
290.5
281.6
267.9
251.9
233.4
208.8
185.6
188.3
130.9
105.3
76.6
27.7
0.0

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