

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: P940784

Luminaire Tested: **GALN-SB4A-735-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940784  
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-SB4A-735-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

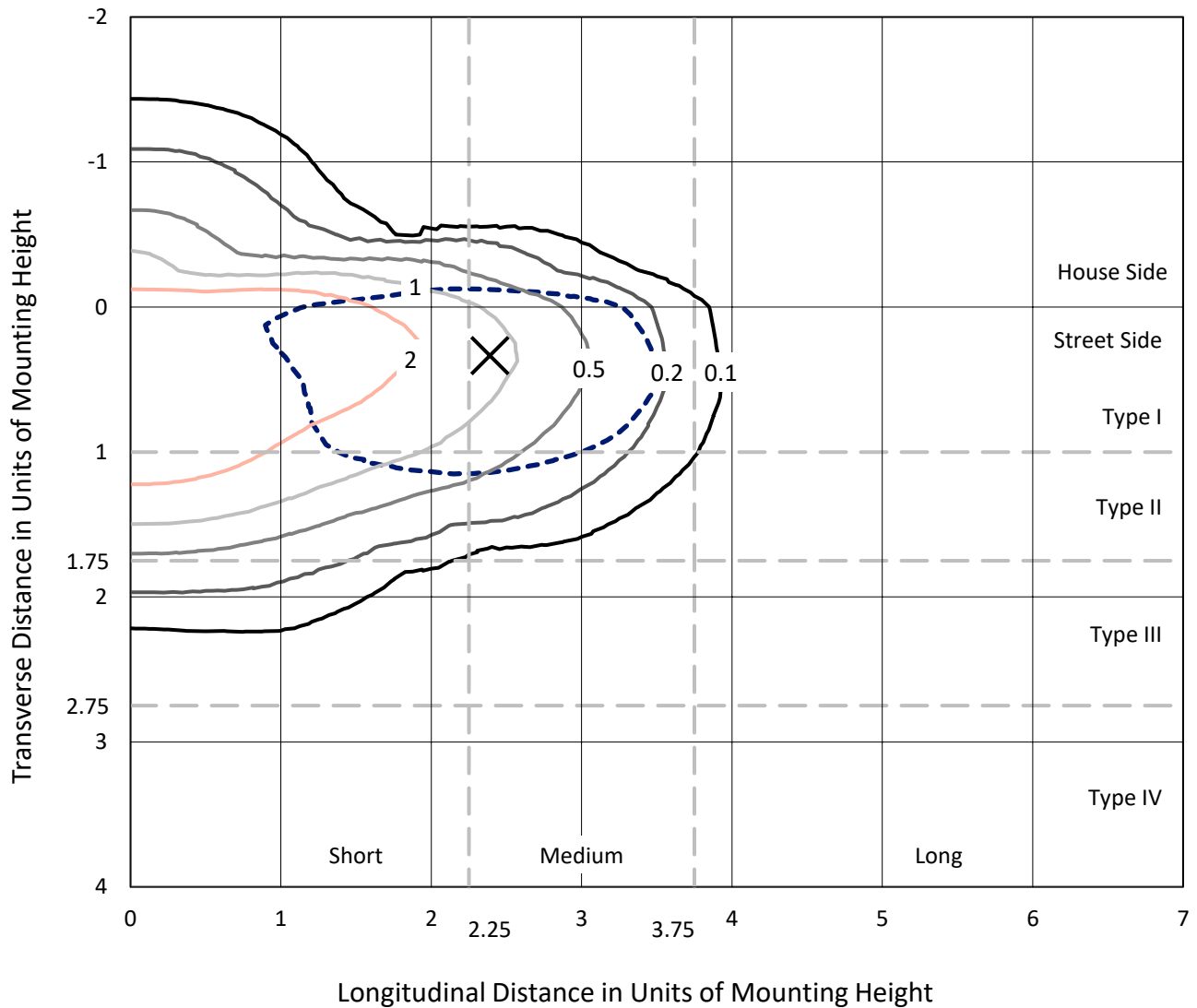
Lumens per Lamp: N/A  
Luminaire Lumens: 13128 lumens  
Efficiency: N/A  
Efficacy: 115.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 114  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

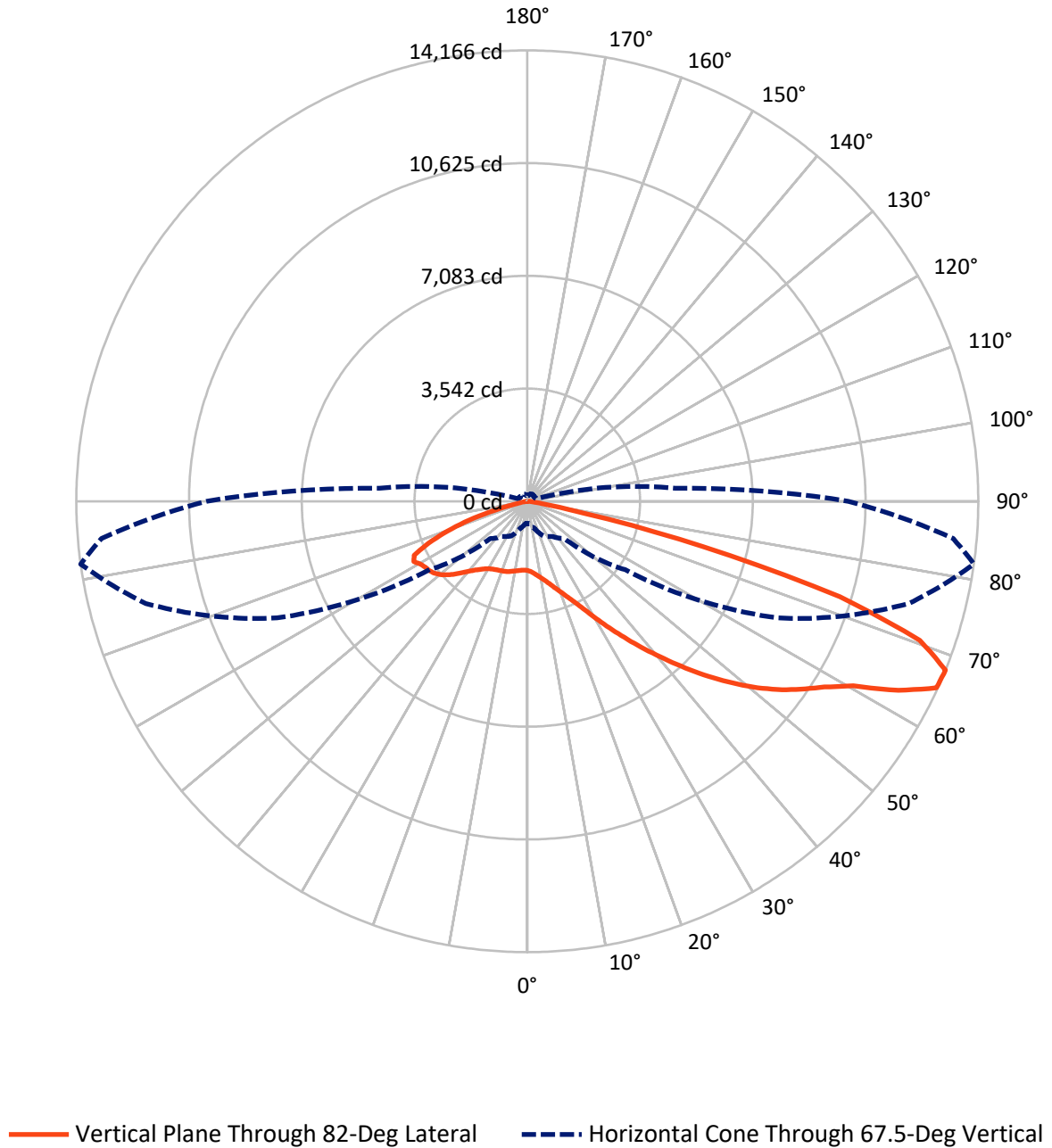
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc  
 Type II - Medium - N/A

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CATALOG NUMBER: GALN-SB4A-735-U-T2-HSS

### Luminous Intensity Polar Plot



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CATALOG NUMBER: GALN-SB4A-735-U-T2-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2378.0	0.0	2378.0
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	10750.0	0.0	10750.0
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	13128.0	0.0	13128.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	193.8	1.5
10°-20°	503.5	3.8
20°-30°	806.5	6.1
30°-40°	1426.1	10.9
40°-50°	2498.6	19.0
50°-60°	3332.5	25.4
60°-70°	3102.4	23.6
70°-80°	1190.7	9.1
80°-90°	74.0	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°	13128.0	100.0
0°-180°	13128.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P940784

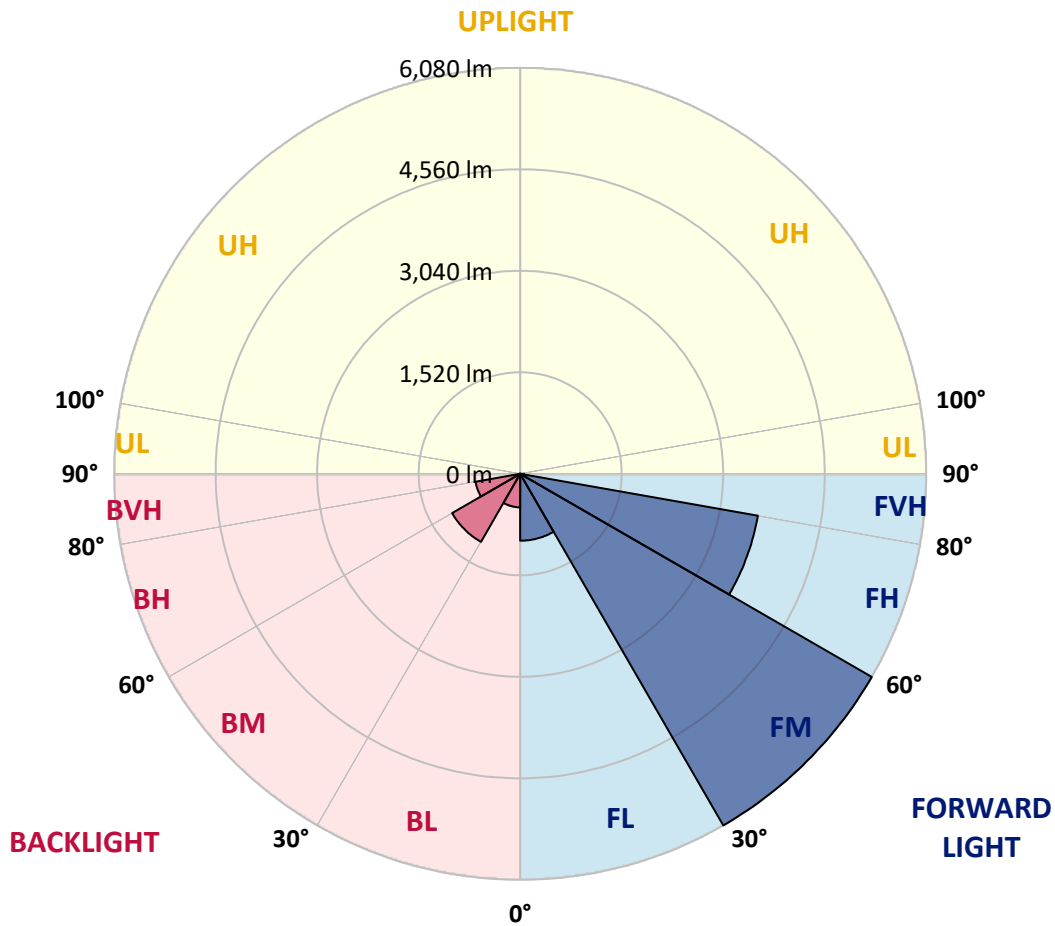
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1001.5	7.6			
FM (30°-60°)	6080.4	46.3			
FH (60°-80°)	3614.3	27.5			G2/5000
FVH (80°-90°)	53.8	0.4			G1/100
BL (0°-30°)	502.2	3.8	B2/1000		
BM (30°-60°)	1176.9	9.0	B2/2500		
BH (60°-80°)	678.7	5.2	B2/1000		G2/1000
BVH (80°-90°)	20.2	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



REPORT NUMBER: P940784

CATALOG NUMBER: GALN-SB4A-735-U-T2-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	2174.9	2174.9	2174.9	2174.9	2174.9	2174.9	2174.9	2174.9	2174.9	2174.9
2.5°	2298.7	2311.9	2304.4	2300.6	2294.0	2284.5	2276.9	2253.3	2228.7	2212.7
5°	2345.0	2358.2	2357.3	2361.1	2365.8	2368.6	2366.7	2340.3	2305.3	2277.9
7.5°	2305.3	2320.4	2332.7	2351.6	2384.7	2419.7	2436.7	2431.0	2395.1	2357.3
10°	2192.8	2208.9	2238.2	2282.6	2352.6	2428.2	2491.5	2520.8	2498.1	2456.5
12.5°	1986.8	2002.8	2060.5	2156.9	2274.1	2405.5	2526.5	2604.9	2610.6	2569.0
15°	1755.2	1771.3	1832.7	1953.7	2132.3	2343.1	2545.4	2693.8	2743.9	2707.9
17.5°	1611.5	1625.7	1672.0	1769.4	1955.6	2218.3	2538.8	2788.3	2902.7	2874.3
20°	1568.1	1580.3	1602.1	1670.1	1825.1	2088.9	2495.3	2877.1	3073.7	3057.7
22.5°	1614.4	1625.7	1632.3	1662.6	1759.9	2003.8	2440.5	2967.9	3272.2	3274.1
25°	1721.2	1732.5	1725.0	1743.9	1786.4	1977.3	2419.7	3074.7	3521.8	3542.5
27.5°	1897.0	1897.9	1880.0	1879.0	1885.6	2017.0	2441.4	3189.0	3836.5	3875.2
30°	2249.5	2235.4	2166.4	2091.7	2057.7	2136.1	2501.9	3324.2	4208.0	4277.0
32.5°	2793.0	2772.2	2645.6	2466.9	2287.3	2328.0	2610.6	3478.3	4612.5	4737.3
35°	3382.8	3377.1	3244.8	2979.2	2665.4	2601.1	2787.3	3680.5	5053.9	5252.4
37.5°	3931.0	3928.2	3852.6	3539.7	3157.9	2982.1	3070.9	3945.2	5526.5	5813.8
40°	4432.0	4440.5	4364.9	4085.1	3700.4	3470.7	3456.5	4272.2	6052.0	6425.4
42.5°	4864.9	4874.3	4797.7	4590.8	4236.3	4011.4	3930.1	4673.0	6565.2	7082.3
45°	5158.8	5217.4	5206.1	5040.7	4786.4	4552.9	4499.1	5175.8	7150.3	7778.9
47.5°	5242.0	5295.9	5380.9	5403.6	5248.6	5018.9	5083.2	5781.7	7742.0	8476.4
50°	5036.9	5087.0	5263.7	5499.1	5606.8	5535.9	5651.2	6431.0	8347.9	9172.1
52.5°	4632.3	4683.4	4906.4	5278.8	5718.4	5941.4	6221.2	7070.9	8934.8	9830.8
55°	4047.3	4101.1	4387.5	4809.1	5505.7	6108.7	6696.6	7709.9	9472.6	10423.5
57.5°	3251.4	3291.1	3588.9	4178.7	4970.7	5942.4	7047.3	8407.4	9979.2	11005.7
60°	2119.1	2154.1	2500.0	3157.9	4084.1	5386.6	7117.2	9185.3	10652.2	11762.8
62.5°	1409.3	1432.9	1638.0	2121.0	2876.2	4319.5	6708.0	9806.3	11639.0	13080.4
65°	966.9	990.6	1195.7	1532.1	1858.2	2857.3	5531.2	9724.0	12533.1	14126.7
67.5°	690.0	709.8	883.7	1201.3	1345.0	1659.7	3749.5	8673.0	12404.6	14166.4
70°	494.3	505.7	649.3	935.7	1069.0	997.2	2085.1	6633.3	10861.1	13081.3
72.5°	345.9	349.7	450.9	712.7	861.1	727.8	992.4	4422.5	8214.6	10267.5
75°	234.4	239.1	303.4	522.7	690.9	555.8	525.5	2371.5	4822.3	5683.4
77.5°	143.7	145.6	195.7	357.3	517.0	423.4	338.4	1004.7	1865.8	1831.8
80°	81.3	81.3	124.8	222.1	352.6	273.2	237.2	427.2	590.7	518.9
82.5°	45.4	46.3	90.7	138.0	233.5	161.6	130.4	197.5	255.2	225.9
85°	18.9	20.8	55.8	65.2	111.5	80.3	52.9	83.2	94.5	84.1
87.5°	1.9	2.8	17.0	12.3	13.2	16.1	7.6	16.1	13.2	13.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P940784  
 CATALOG NUMBER: GALN-SB4A-735-U-T2-HSS

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2174.9	0°	2174.9	2174.9	2174.9	2174.9	2174.9	2174.9	2174.9	2174.9	2174.9	2174.9
2207.0	2.5°	2189.0	2174.9	2138.9	2097.4	2042.5	2016.1	1980.2	1955.6	1934.8	1936.7
2261.8	5°	2231.6	2195.7	2115.3	2015.1	1890.4	1801.5	1707.0	1641.8	1588.9	1577.5
2337.4	7.5°	2290.2	2233.5	2092.6	1912.1	1701.3	1541.6	1398.9	1307.2	1242.0	1221.2
2429.1	10°	2365.8	2283.6	2063.3	1782.6	1479.2	1276.0	1122.9	1051.0	1006.6	991.5
2536.9	12.5°	2453.7	2341.2	2024.6	1624.8	1250.5	1054.8	957.5	921.6	907.4	902.6
2669.2	15°	2564.3	2413.1	1966.0	1437.6	1056.7	919.7	878.1	873.3	875.2	873.3
2828.0	17.5°	2695.7	2491.5	1870.5	1244.8	926.3	850.7	835.5	839.3	844.0	843.1
3005.7	20°	2839.3	2569.0	1748.6	1073.7	837.4	801.5	793.0	796.8	800.6	798.7
3210.8	22.5°	3002.8	2652.2	1613.4	940.5	777.9	756.1	746.7	747.6	747.6	743.9
3470.7	25°	3198.5	2743.9	1471.6	845.9	732.5	715.5	704.2	700.4	694.7	683.4
3786.4	27.5°	3432.0	2841.2	1335.5	779.8	696.6	680.5	667.3	657.8	643.7	624.8
4165.4	30°	3694.7	2959.4	1220.2	738.2	668.2	652.2	637.1	622.9	602.1	578.5
4601.1	32.5°	4003.8	3086.0	1136.1	710.8	642.7	625.7	607.8	590.7	568.1	544.4
5090.8	35°	4372.4	3239.1	1087.0	691.9	622.9	600.2	580.3	561.4	544.4	523.6
5622.9	37.5°	4772.2	3401.7	1071.8	682.4	609.6	574.7	552.0	538.8	536.9	524.6
6198.5	40°	5209.8	3594.5	1083.2	676.8	595.5	550.1	525.5	522.7	527.4	505.7
6813.8	42.5°	5673.0	3823.3	1102.1	670.1	575.6	525.5	501.9	501.9	498.1	467.9
7464.1	45°	6173.9	4087.0	1121.0	654.1	552.0	500.9	483.0	476.4	460.3	431.0
8118.2	47.5°	6678.7	4355.4	1135.2	624.8	523.6	480.2	464.1	449.0	425.3	398.9
8760.0	50°	7157.9	4596.4	1120.0	581.3	491.5	460.3	443.3	422.5	397.0	379.0
9367.7	52.5°	7586.0	4805.3	1055.8	530.2	457.5	439.5	424.4	402.6	381.9	363.0
9915.9	55°	7958.4	4974.5	942.3	482.0	427.2	421.6	406.4	379.0	350.7	334.6
10459.4	57.5°	8315.7	5103.0	800.6	442.3	399.8	401.7	379.0	354.4	328.0	311.0
11191.9	60°	8791.1	5275.1	656.9	405.5	370.5	376.2	351.6	333.6	300.6	278.8
12448.1	62.5°	9551.1	5542.6	521.7	360.1	336.5	338.4	328.0	306.2	266.5	241.0
13379.1	65°	10154.1	5444.3	411.2	311.0	297.7	300.6	300.6	276.9	234.4	205.1
13429.2	67.5°	10086.0	4661.6	328.0	262.8	260.9	262.8	269.4	249.5	207.9	184.3
12406.5	70°	9291.1	3708.0	262.8	218.3	226.8	222.1	241.0	227.8	187.1	163.5
9618.2	72.5°	7581.3	2671.1	200.4	180.5	173.9	181.5	217.4	205.1	156.0	129.5
5094.5	75°	4430.1	1425.3	149.3	142.7	125.7	151.2	192.8	174.9	119.1	95.5
1561.4	77.5°	1442.3	497.2	109.6	104.9	93.6	121.9	164.5	147.4	97.4	75.6
457.5	80°	386.6	150.3	74.7	69.0	60.5	90.7	130.4	117.2	69.9	49.1
196.6	82.5°	155.0	63.3	43.5	38.8	33.1	62.4	103.0	94.5	52.0	31.2
61.4	85°	50.1	20.8	16.1	12.3	15.1	38.8	61.4	64.3	36.9	16.1
9.5	87.5°	6.6	2.8	2.8	3.8	2.8	6.6	18.9	18.0	10.4	1.9
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°
2174.9
1917.8
1552.0
1200.4
980.2
899.8
872.4
841.2
797.7
742.0
681.5
622.9
576.6
545.4
521.7
523.6
506.6
467.9
430.1
397.9
376.2
361.1
332.7
309.1
276.0
239.1
202.3
180.5
160.7
126.7
92.6
72.8
48.2
31.2
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