

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: P941674

Luminaire Tested: **GALN-SB5B-827-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941674  
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-SB5B-827-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

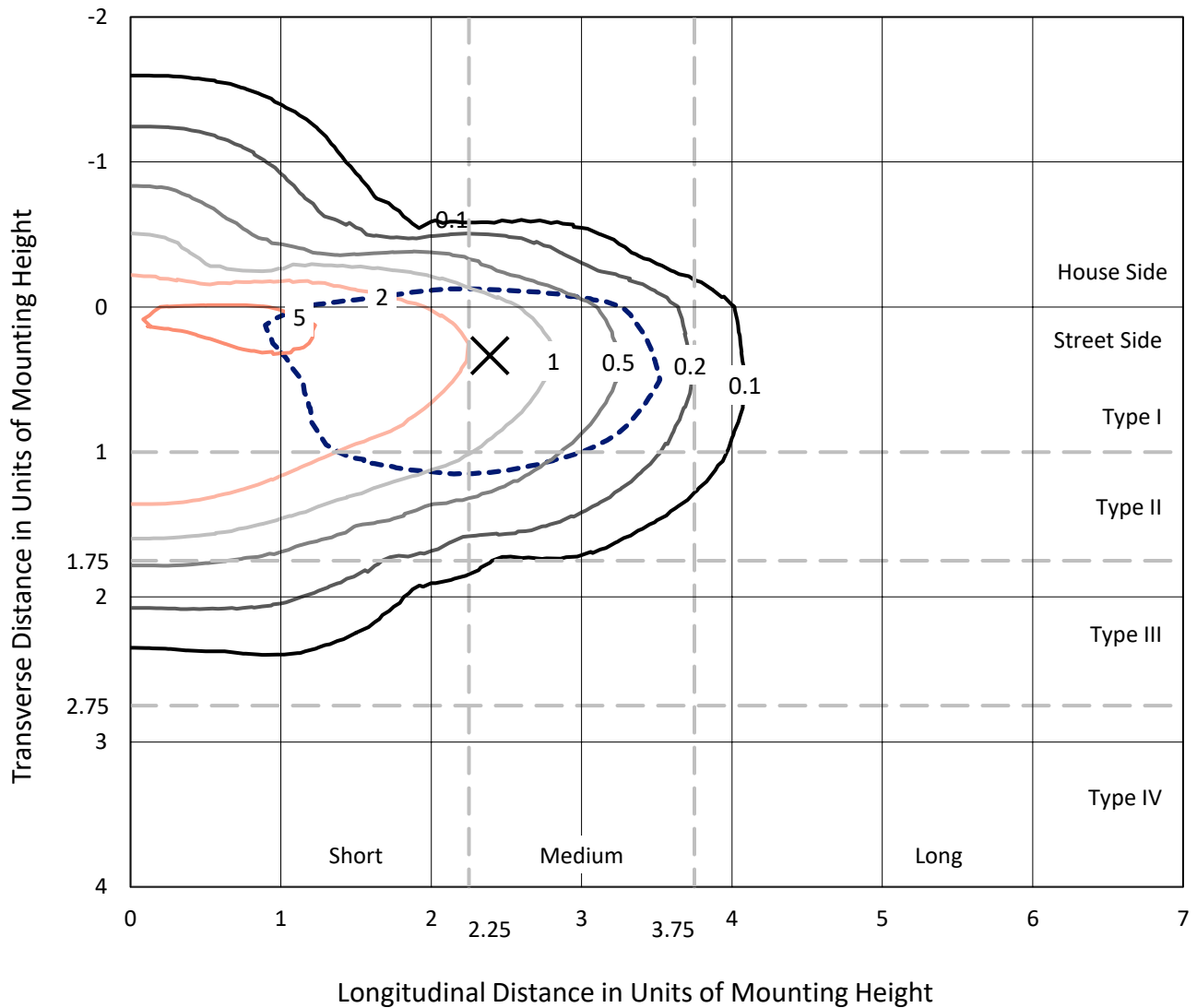
Lumens per Lamp: N/A  
Luminaire Lumens: 18062 lumens  
Efficiency: N/A  
Efficacy: 98.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 182.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

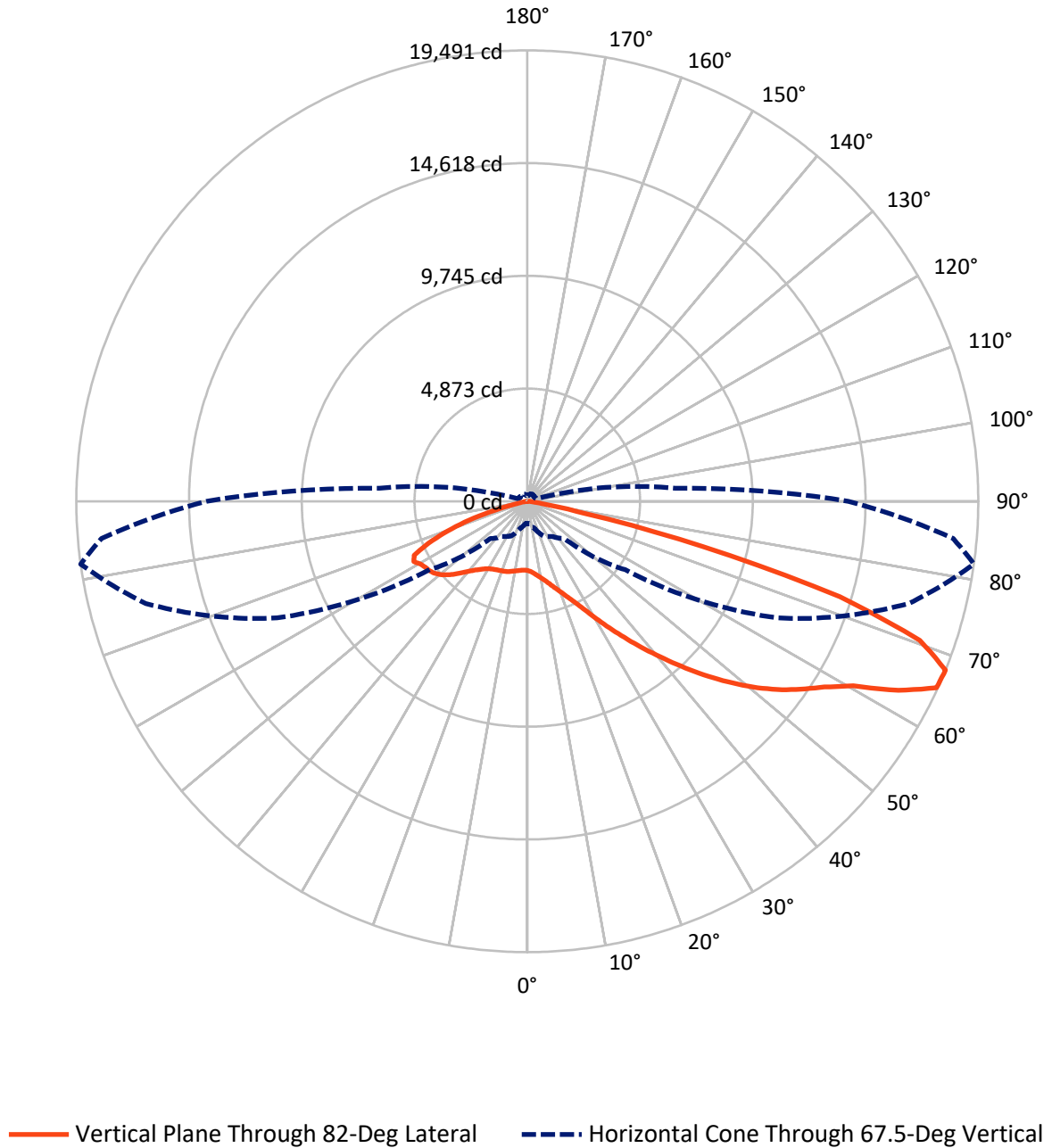
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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	3271.8	0.0	3271.8
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	14790.2	0.0	14790.2
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	18062.0	0.0	18062.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	266.6	1.5
10°-20°	692.8	3.8
20°-30°	1109.6	6.1
30°-40°	1962.1	10.9
40°-50°	3437.7	19.0
50°-60°	4585.0	25.4
60°-70°	4268.4	23.6
70°-80°	1638.2	9.1
80°-90°	101.7	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°	18062.0	100.0
0°-180°	18062.0	100.0

**Coefficient of Utilization**



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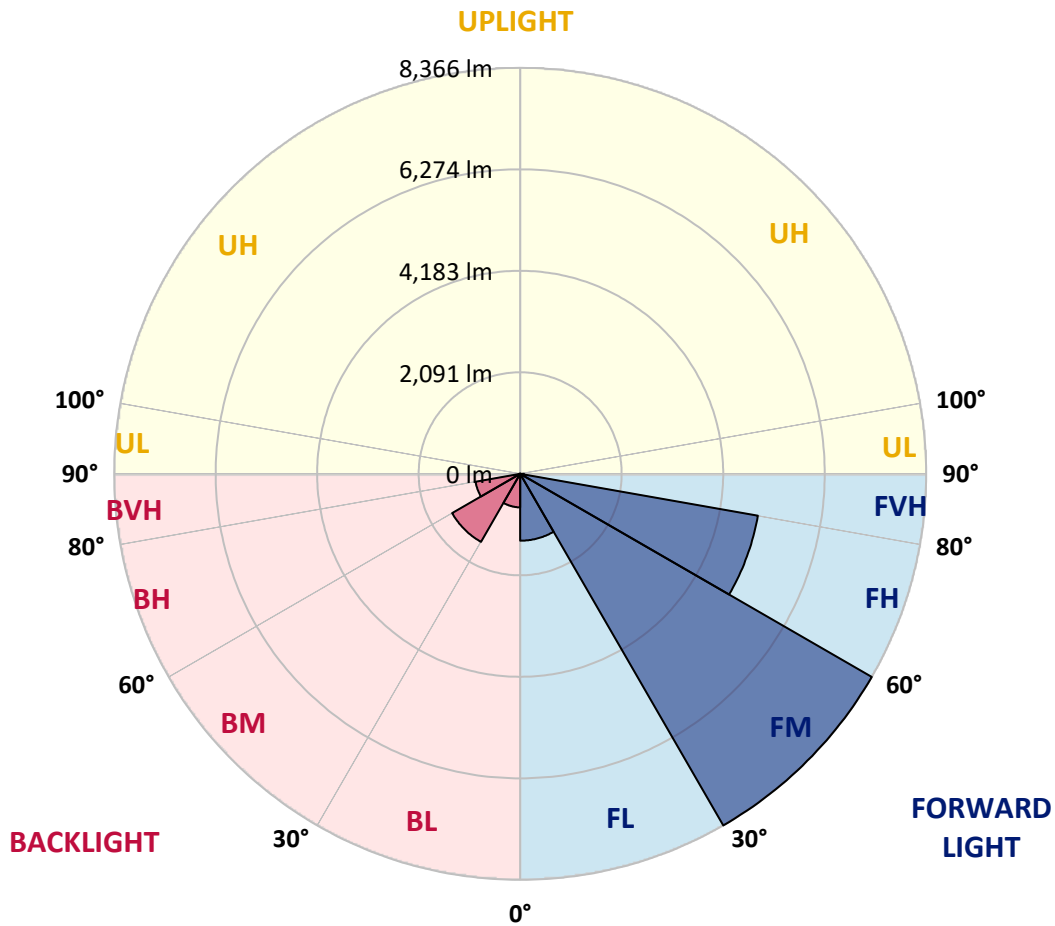
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1377.9	7.6			
FM (30°-60°)	8365.6	46.3			
FH (60°-80°)	4972.7	27.5			G2/5000
FVH (80°-90°)	74.0	0.4			G1/100
BL (0°-30°)	691.0	3.8	B2/1000		
BM (30°-60°)	1619.2	9.0	B2/2500		
BH (60°-80°)	933.8	5.2	B2/1000		G2/1000
BVH (80°-90°)	27.8	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°	2992.3	2992.3	2992.3	2992.3	2992.3	2992.3	2992.3	2992.3	2992.3	2992.3
2.5°	3162.6	3180.8	3170.4	3165.2	3156.1	3143.1	3132.7	3100.2	3066.4	3044.3
5°	3226.3	3244.5	3243.2	3248.4	3254.9	3258.8	3256.2	3219.8	3171.7	3134.0
7.5°	3171.7	3192.5	3209.4	3235.4	3281.0	3329.1	3352.5	3344.7	3295.3	3243.2
10°	3017.0	3039.1	3079.4	3140.5	3236.7	3340.8	3427.9	3468.2	3437.0	3379.8
12.5°	2733.5	2755.6	2834.9	2967.6	3128.8	3309.6	3476.0	3584.0	3591.8	3534.5
15°	2414.9	2437.0	2521.5	2688.0	2933.7	3223.7	3502.0	3706.2	3775.1	3725.7
17.5°	2217.2	2236.7	2300.4	2434.4	2690.6	3052.1	3492.9	3836.2	3993.6	3954.6
20°	2157.4	2174.3	2204.2	2297.8	2511.1	2873.9	3433.1	3958.5	4229.0	4206.9
22.5°	2221.1	2236.7	2245.8	2287.4	2421.4	2756.9	3357.7	4083.3	4502.0	4504.6
25°	2368.1	2383.7	2373.3	2399.3	2457.8	2720.5	3329.1	4230.3	4845.4	4874.0
27.5°	2609.9	2611.2	2586.5	2585.2	2594.3	2775.1	3359.0	4387.6	5278.4	5331.7
30°	3095.0	3075.5	2980.6	2877.8	2831.0	2938.9	3442.2	4573.6	5789.5	5884.4
32.5°	3842.7	3814.1	3639.9	3394.1	3147.0	3202.9	3591.8	4785.5	6346.0	6517.7
35°	4654.2	4646.4	4464.3	4098.9	3667.2	3578.8	3834.9	5063.8	6953.3	7226.4
37.5°	5408.4	5404.5	5300.5	4870.1	4344.7	4102.8	4225.1	5427.9	7603.5	7998.9
40°	6097.7	6109.4	6005.3	5620.4	5091.1	4775.1	4755.6	5877.9	8326.6	8840.2
42.5°	6693.3	6706.3	6600.9	6316.1	5828.5	5519.0	5407.1	6429.3	9032.7	9744.0
45°	7097.7	7178.3	7162.7	6935.1	6585.3	6264.1	6190.0	7121.1	9837.7	10702.4
47.5°	7212.1	7286.2	7403.3	7434.5	7221.2	6905.2	6993.6	7954.7	10651.7	11662.1
50°	6929.9	6998.9	7242.0	7565.8	7714.1	7616.5	7775.2	8848.0	11485.3	12619.3
52.5°	6373.3	6443.6	6750.5	7262.8	7867.5	8174.4	8559.4	9728.4	12292.9	13525.6
55°	5568.4	5642.5	6036.5	6616.5	7574.9	8404.6	9213.5	10607.5	13032.8	14341.0
57.5°	4473.4	4528.1	4937.7	5749.1	6838.9	8175.7	9695.9	11567.2	13729.8	15142.1
60°	2915.5	2963.7	3439.6	4344.7	5619.1	7411.1	9792.1	12637.5	14655.7	16183.7
62.5°	1938.9	1971.4	2253.6	2918.1	3957.2	5942.9	9229.1	13491.8	16013.3	17996.5
65°	1330.3	1362.8	1645.0	2108.0	2556.6	3931.2	7610.0	13378.7	17243.5	19436.0
67.5°	949.3	976.6	1215.9	1652.8	1850.5	2283.5	5158.8	11932.6	17066.7	19490.7
70°	680.1	695.7	893.4	1287.4	1470.8	1371.9	2868.7	9126.3	14943.1	17997.8
72.5°	476.0	481.2	620.3	980.5	1184.7	1001.3	1365.4	6084.7	11301.9	14126.4
75°	322.5	329.0	417.4	719.1	950.6	764.6	723.0	3262.7	6634.7	7819.4
77.5°	197.7	200.3	269.2	491.6	711.3	582.6	465.5	1382.3	2567.0	2520.2
80°	111.8	111.8	171.7	305.6	485.1	375.8	326.4	587.8	812.8	713.9
82.5°	62.4	63.7	124.8	189.9	321.2	222.4	179.5	271.8	351.1	310.8
85°	26.0	28.6	76.7	89.7	153.4	110.5	72.8	114.4	130.0	115.7
87.5°	2.6	3.9	23.4	16.9	18.2	22.1	10.4	22.1	18.2	18.2
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°
2992.3	0°	2992.3	2992.3	2992.3	2992.3	2992.3	2992.3	2992.3	2992.3	2992.3	2992.3
3036.5	2.5°	3011.8	2992.3	2942.8	2885.6	2810.2	2773.8	2724.4	2690.6	2662.0	2664.6
3111.9	5°	3070.3	3020.9	2910.3	2772.5	2600.8	2478.6	2348.6	2258.8	2186.0	2170.4
3215.9	7.5°	3150.9	3072.9	2879.1	2630.7	2340.8	2121.0	1924.6	1798.5	1708.7	1680.1
3342.1	10°	3254.9	3141.8	2838.8	2452.6	2035.2	1755.6	1544.9	1446.1	1384.9	1364.1
3490.3	12.5°	3375.9	3221.1	2785.5	2235.4	1720.5	1451.3	1317.3	1267.9	1248.4	1241.9
3672.4	15°	3528.0	3320.0	2704.9	1977.9	1453.9	1265.3	1208.1	1201.6	1204.2	1201.6
3890.9	17.5°	3708.8	3427.9	2573.5	1712.7	1274.4	1170.4	1149.6	1154.8	1161.3	1160.0
4135.3	20°	3906.5	3534.5	2405.8	1477.3	1152.2	1102.8	1091.1	1096.3	1101.5	1098.9
4417.5	22.5°	4131.4	3649.0	2219.8	1293.9	1070.2	1040.3	1027.3	1028.6	1028.6	1023.4
4775.1	25°	4400.6	3775.1	2024.8	1163.9	1007.8	984.4	968.8	963.6	955.8	940.2
5209.5	27.5°	4721.8	3909.1	1837.5	1072.8	958.4	936.3	918.1	905.1	885.6	859.6
5730.9	30°	5083.3	4071.6	1678.8	1015.6	919.4	897.3	876.5	857.0	828.4	795.9
6330.4	32.5°	5508.6	4245.9	1563.1	977.9	884.3	860.9	836.2	812.8	781.6	749.0
7004.1	35°	6015.7	4456.5	1495.5	951.9	857.0	825.8	798.5	772.4	749.0	720.4
7736.2	37.5°	6565.8	4680.2	1474.7	938.9	838.8	790.7	759.4	741.2	738.6	721.7
8528.1	40°	7167.9	4945.5	1490.3	931.1	819.3	756.8	723.0	719.1	725.6	695.7
9374.7	42.5°	7805.1	5260.2	1516.3	922.0	792.0	723.0	690.5	690.5	685.3	643.7
10269.4	45°	8494.3	5623.0	1542.3	899.9	759.4	689.2	664.5	655.4	633.3	593.0
11169.3	47.5°	9188.8	5992.3	1561.8	859.6	720.4	660.6	638.5	617.7	585.2	548.8
12052.3	50°	9848.1	6323.9	1541.0	799.8	676.2	633.3	609.9	581.3	546.2	521.5
12888.4	52.5°	10437.2	6611.3	1452.6	729.5	629.4	604.7	583.9	554.0	525.4	499.4
13642.7	55°	10949.5	6844.1	1296.5	663.2	587.8	580.0	559.2	521.5	482.5	460.3
14390.4	57.5°	11441.1	7021.0	1101.5	608.6	550.1	552.7	521.5	487.7	451.2	427.8
15398.3	60°	12095.2	7257.6	903.8	557.9	509.8	517.6	483.8	459.0	413.5	383.6
17126.5	62.5°	13140.7	7625.7	717.8	495.5	462.9	465.5	451.2	421.3	366.7	331.6
18407.4	65°	13970.4	7490.4	565.7	427.8	409.6	413.5	413.5	381.0	322.5	282.2
18476.3	67.5°	13876.8	6413.7	451.2	361.5	358.9	361.5	370.6	343.3	286.1	253.6
17069.3	70°	12783.1	5101.5	361.5	300.4	312.1	305.6	331.6	313.4	257.5	225.0
13233.1	72.5°	10430.7	3675.0	275.7	248.4	239.3	249.7	299.1	282.2	214.6	178.2
7009.3	75°	6095.1	1961.0	205.5	196.4	173.0	208.1	265.3	240.6	163.9	131.3
2148.3	77.5°	1984.4	684.0	150.8	144.3	128.7	167.8	226.3	202.9	133.9	104.0
629.4	80°	531.9	206.8	102.7	94.9	83.2	124.8	179.5	161.3	96.2	67.6
270.5	82.5°	213.3	87.1	59.8	53.3	45.5	85.8	141.7	130.0	71.5	42.9
84.5	85°	68.9	28.6	22.1	16.9	20.8	53.3	84.5	88.4	50.7	22.1
13.0	87.5°	9.1	3.9	3.9	5.2	3.9	9.1	26.0	24.7	14.3	2.6
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°
2992.3
2638.5
2135.3
1651.5
1348.5
1238.0
1200.3
1157.4
1097.6
1020.8
937.6
857.0
793.3
750.3
717.8
720.4
697.0
643.7
591.7
547.5
517.6
496.8
457.7
425.2
379.7
329.0
278.3
248.4
221.1
174.3
127.4
100.1
66.3
42.9
16.9
0.0
0.0

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