

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: P941504

Luminaire Tested: **GALN-SB5A-827-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941504  
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-SB5A-827-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

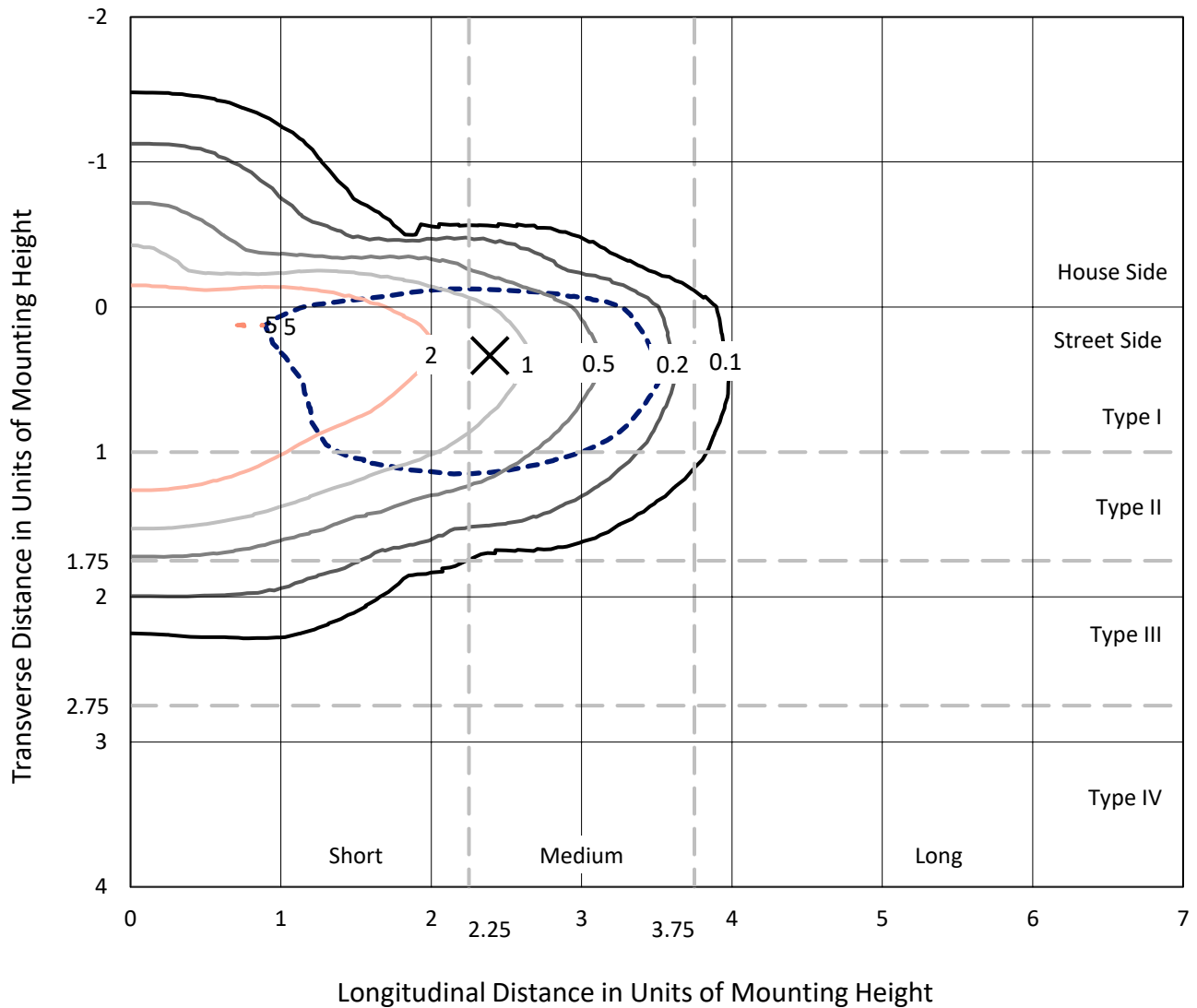
Lumens per Lamp: N/A  
Luminaire Lumens: 14388 lumens  
Efficiency: N/A  
Efficacy: 101.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 141.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

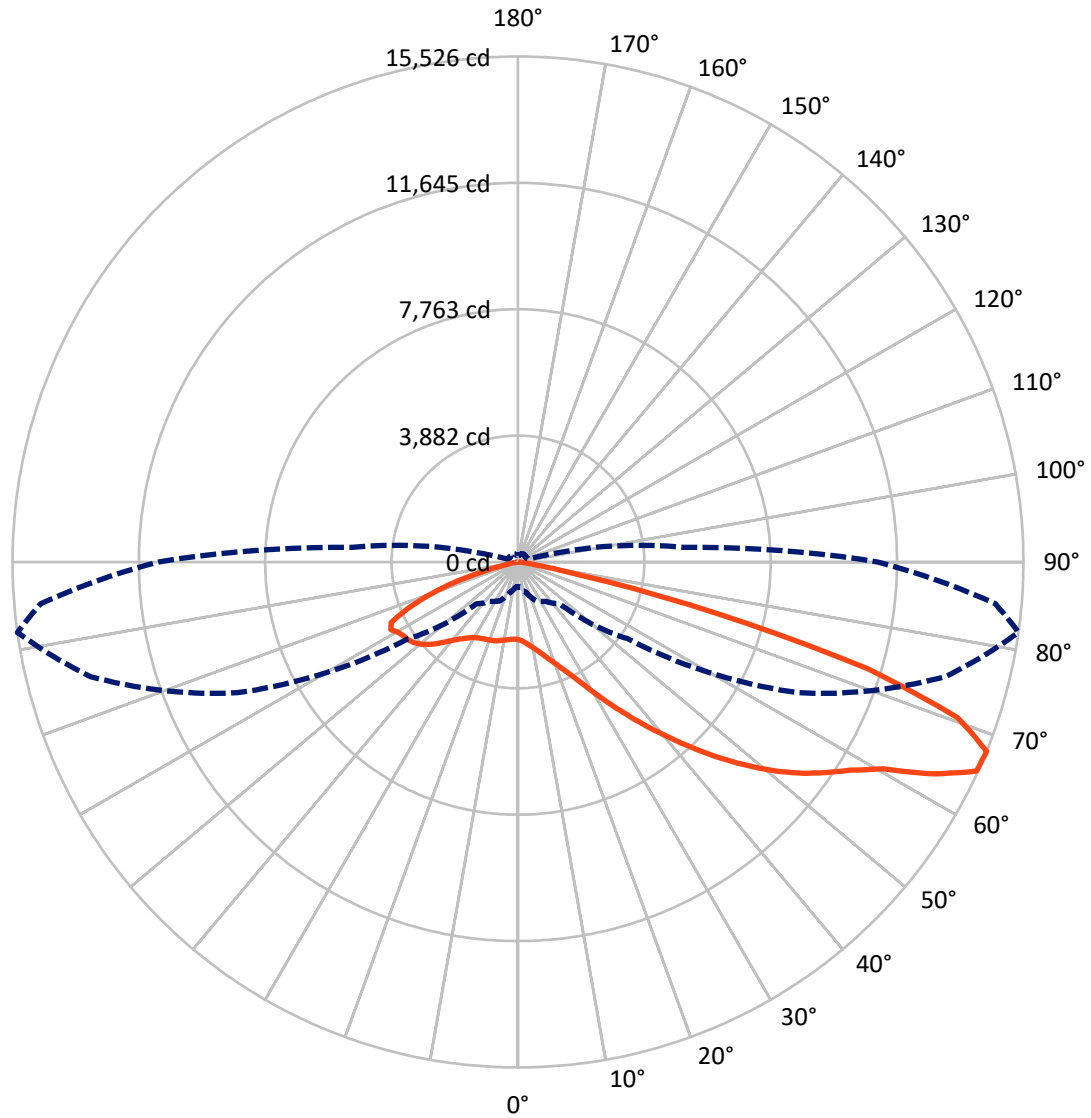
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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
<b>House Side</b>	Lumens	2606.3	0.0	2606.3
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	11781.7	0.0	11781.7
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	14388.0	0.0	14388.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	212.4	1.5
10°-20°	551.8	3.8
20°-30°	883.9	6.1
30°-40°	1563.0	10.9
40°-50°	2738.5	19.0
50°-60°	3652.3	25.4
60°-70°	3400.1	23.6
70°-80°	1305.0	9.1
80°-90°	81.1	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°	14388.0	100.0
0°-180°	14388.0	100.0

**Coefficient of Utilization**



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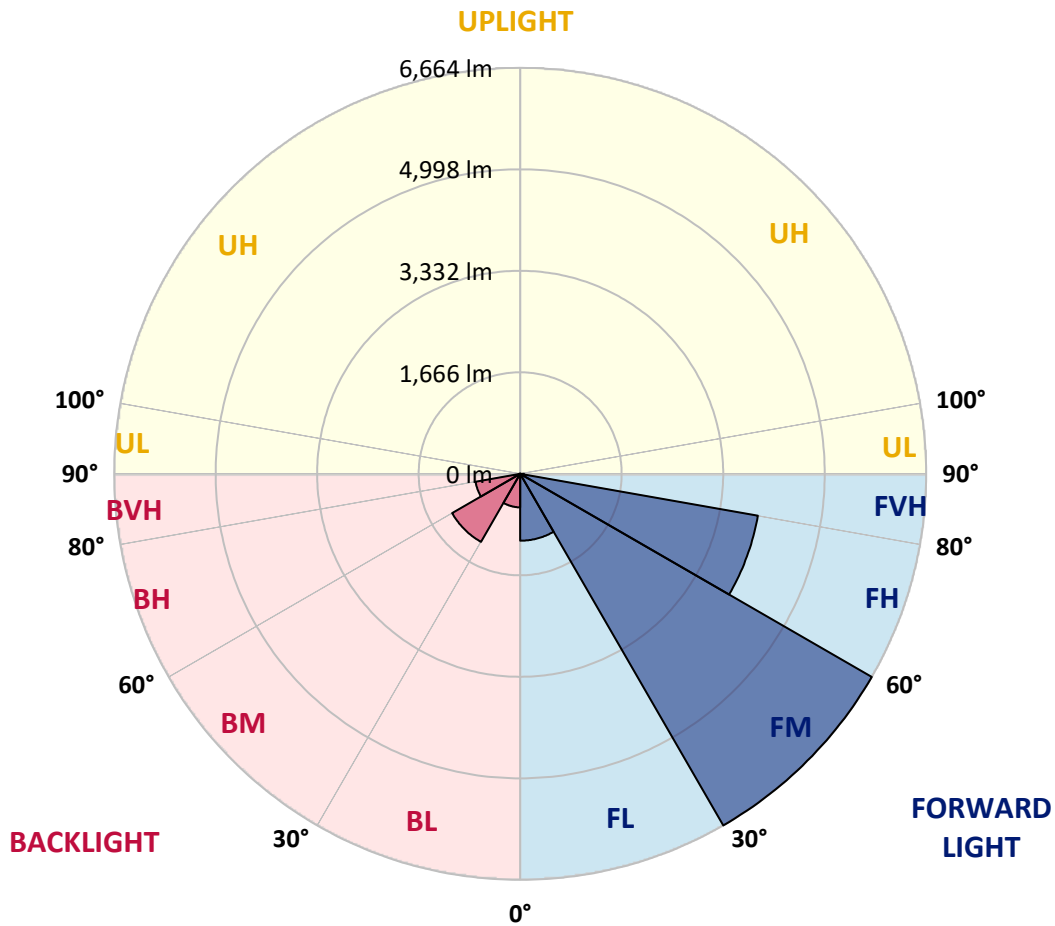
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1097.6	7.6			
FM (30°-60°)	6663.9	46.3			
FH (60°-80°)	3961.2	27.5			G2/5000
FVH (80°-90°)	58.9	0.4			G1/100
BL (0°-30°)	550.4	3.8	B2/1000		
BM (30°-60°)	1289.8	9.0	B2/2500		
BH (60°-80°)	743.9	5.2	B2/1000		G2/1000
BVH (80°-90°)	22.1	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°	2383.6	2383.6	2383.6	2383.6	2383.6	2383.6	2383.6	2383.6	2383.6	2383.6
2.5°	2519.3	2533.8	2525.5	2521.4	2514.1	2503.8	2495.5	2469.6	2442.7	2425.0
5°	2570.1	2584.6	2583.5	2587.7	2592.9	2596.0	2593.9	2564.9	2526.6	2496.5
7.5°	2526.6	2543.1	2556.6	2577.3	2613.6	2651.9	2670.5	2664.3	2625.0	2583.5
10°	2403.3	2420.9	2453.0	2501.7	2578.4	2661.2	2730.6	2762.7	2737.9	2692.3
12.5°	2177.5	2195.1	2258.3	2363.9	2492.4	2636.4	2769.0	2854.9	2861.2	2815.6
15°	1923.7	1941.3	2008.6	2141.2	2337.0	2568.0	2789.7	2952.3	3007.2	2967.9
17.5°	1766.2	1781.7	1832.5	1939.2	2143.3	2431.3	2782.4	3055.9	3181.2	3150.2
20°	1718.6	1732.0	1755.8	1830.4	2000.3	2289.3	2734.8	3153.3	3368.7	3351.1
22.5°	1769.3	1781.7	1789.0	1822.1	1928.8	2196.1	2674.7	3252.7	3586.3	3588.4
25°	1886.4	1898.8	1890.5	1911.2	1957.9	2167.1	2651.9	3369.8	3859.8	3882.6
27.5°	2079.1	2080.1	2060.4	2059.4	2066.6	2210.6	2675.7	3495.1	4204.7	4247.2
30°	2465.4	2449.9	2374.3	2292.4	2255.2	2341.1	2742.0	3643.3	4611.8	4687.4
32.5°	3061.1	3038.3	2899.5	2703.7	2506.9	2551.4	2861.2	3812.1	5055.2	5191.9
35°	3707.5	3701.3	3556.2	3265.2	2921.2	2850.8	3054.9	4033.8	5539.0	5756.5
37.5°	4308.3	4305.2	4222.3	3879.4	3460.9	3268.3	3365.6	4323.8	6056.9	6371.8
40°	4857.3	4866.7	4783.8	4477.2	4055.5	3803.8	3788.3	4682.3	6632.9	7042.0
42.5°	5331.8	5342.1	5258.2	5031.4	4642.9	4396.4	4307.3	5121.5	7195.4	7762.0
45°	5653.9	5718.2	5705.7	5524.5	5245.8	4989.9	4930.9	5672.6	7836.6	8525.5
47.5°	5745.1	5804.1	5897.4	5922.2	5752.3	5500.6	5571.1	6336.6	8485.1	9289.9
50°	5520.3	5575.2	5768.9	6026.9	6145.0	6067.3	6193.6	7048.3	9149.1	10052.4
52.5°	5076.9	5132.9	5377.4	5785.5	6267.2	6511.7	6818.3	7749.6	9792.4	10774.4
55°	4435.7	4494.8	4808.6	5270.7	6034.1	6695.0	7339.3	8449.8	10381.8	11423.9
57.5°	3563.5	3607.0	3933.3	4579.7	5447.8	6512.7	7723.7	9214.3	10937.0	12062.0
60°	2322.5	2360.8	2740.0	3460.9	4476.1	5903.6	7800.3	10066.9	11674.6	12891.8
62.5°	1544.5	1570.4	1795.2	2324.6	3152.2	4734.1	7351.8	10747.5	12756.1	14335.8
65°	1059.7	1085.6	1310.4	1679.2	2036.6	3131.5	6062.1	10657.3	13736.0	15482.6
67.5°	756.2	778.0	968.6	1316.6	1474.1	1819.0	4109.4	9505.4	13595.1	15526.1
70°	541.8	554.2	711.7	1025.5	1171.6	1092.9	2285.2	7269.9	11903.5	14336.8
72.5°	379.1	383.3	494.1	781.1	943.7	797.6	1087.7	4847.0	9003.0	11253.0
75°	256.9	262.1	332.5	572.9	757.2	609.1	576.0	2599.1	5285.2	6228.9
77.5°	157.5	159.5	214.4	391.6	566.6	464.1	370.9	1101.2	2044.9	2007.6
80°	89.1	89.1	136.7	243.4	386.4	299.4	260.0	468.2	647.4	568.7
82.5°	49.7	50.8	99.4	151.2	255.9	177.1	143.0	216.5	279.7	247.6
85°	20.7	22.8	61.1	71.5	122.2	88.1	58.0	91.2	103.6	92.2
87.5°	2.1	3.1	18.6	13.5	14.5	17.6	8.3	17.6	14.5	14.5
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°
2383.6	0°	2383.6	2383.6	2383.6	2383.6	2383.6	2383.6	2383.6	2383.6	2383.6	2383.6
2418.8	2.5°	2399.1	2383.6	2344.2	2298.7	2238.6	2209.6	2170.2	2143.3	2120.5	2122.6
2478.9	5°	2445.8	2406.4	2318.3	2208.5	2071.8	1974.4	1870.8	1799.4	1741.3	1728.9
2561.8	7.5°	2510.0	2447.8	2293.5	2095.6	1864.6	1689.6	1533.1	1432.6	1361.2	1338.4
2662.3	10°	2592.9	2502.7	2261.4	1953.7	1621.2	1398.5	1230.6	1151.9	1103.2	1086.7
2780.4	12.5°	2689.2	2565.9	2218.9	1780.7	1370.5	1156.1	1049.4	1010.0	994.5	989.3
2925.4	15°	2810.4	2644.7	2154.7	1575.6	1158.1	1007.9	962.4	957.2	959.2	957.2
3099.4	17.5°	2954.4	2730.6	2050.0	1364.3	1015.2	932.3	915.7	919.9	925.1	924.0
3294.2	20°	3111.8	2815.6	1916.4	1176.8	917.8	878.4	869.1	873.3	877.4	875.3
3519.0	22.5°	3291.1	2906.7	1768.3	1030.7	852.5	828.7	818.4	819.4	819.4	815.3
3803.8	25°	3505.5	3007.2	1612.9	927.1	802.8	784.2	771.7	767.6	761.4	749.0
4149.8	27.5°	3761.4	3113.9	1463.7	854.6	763.5	745.8	731.3	721.0	705.4	684.7
4565.2	30°	4049.3	3243.4	1337.3	809.0	732.4	714.8	698.2	682.7	659.9	634.0
5042.8	32.5°	4388.1	3382.2	1245.2	779.0	704.4	685.8	666.1	647.4	622.6	596.7
5579.4	35°	4792.1	3550.0	1191.3	758.3	682.7	657.8	636.0	615.3	596.7	573.9
6162.6	37.5°	5230.3	3728.2	1174.7	747.9	668.2	629.8	605.0	590.5	588.4	574.9
6793.4	40°	5709.9	3939.5	1187.1	741.7	652.6	602.9	576.0	572.9	578.0	554.2
7467.8	42.5°	6217.5	4190.2	1207.9	734.5	630.9	576.0	550.1	550.1	545.9	512.8
8180.5	45°	6766.5	4479.2	1228.6	716.8	605.0	549.0	529.3	522.1	504.5	472.4
8897.3	47.5°	7319.7	4773.4	1244.1	684.7	573.9	526.2	508.6	492.1	466.2	437.1
9600.7	50°	7844.9	5037.6	1227.5	637.1	538.7	504.5	485.8	463.0	435.1	415.4
10266.8	52.5°	8314.1	5266.5	1157.1	581.1	501.4	481.7	465.1	441.3	418.5	397.8
10867.6	55°	8722.3	5451.9	1032.8	528.3	468.2	462.0	445.4	415.4	384.3	366.7
11463.3	57.5°	9113.8	5592.8	877.4	484.8	438.2	440.3	415.4	388.5	359.5	340.8
12266.1	60°	9634.9	5781.4	720.0	444.4	406.1	412.3	385.4	365.7	329.4	305.6
13642.8	62.5°	10467.8	6074.5	571.8	394.7	368.8	370.9	359.5	335.6	292.1	264.2
14663.2	65°	11128.7	5966.8	450.6	340.8	326.3	329.4	329.4	303.5	256.9	224.8
14718.1	67.5°	11054.1	5109.1	359.5	288.0	285.9	288.0	295.2	273.5	227.9	202.0
13597.2	70°	10182.9	4063.8	288.0	239.3	248.6	243.4	264.2	249.7	205.1	179.2
10541.3	72.5°	8308.9	2927.5	219.6	197.9	190.6	198.9	238.3	224.8	170.9	141.9
5583.5	75°	4855.3	1562.1	163.7	156.4	137.8	165.7	211.3	191.6	130.5	104.6
1711.3	77.5°	1580.8	544.9	120.2	115.0	102.6	133.6	180.2	161.6	106.7	82.9
501.4	80°	423.7	164.7	81.8	75.6	66.3	99.4	143.0	128.5	76.7	53.9
215.5	82.5°	169.9	69.4	47.7	42.5	36.3	68.4	112.9	103.6	57.0	34.2
67.3	85°	54.9	22.8	17.6	13.5	16.6	42.5	67.3	70.4	40.4	17.6
10.4	87.5°	7.3	3.1	3.1	4.1	3.1	7.3	20.7	19.7	11.4	2.1
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°
2383.6
2101.8
1700.9
1315.6
1074.2
986.2
956.1
922.0
874.3
813.2
746.9
682.7
631.9
597.7
571.8
573.9
555.2
512.8
471.3
436.1
412.3
395.7
364.6
338.7
302.5
262.1
221.7
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138.8
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