

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: P947839

Luminaire Tested: **GALN-SB3A-827-U-SL2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947839  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB3A-827-U-SL2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

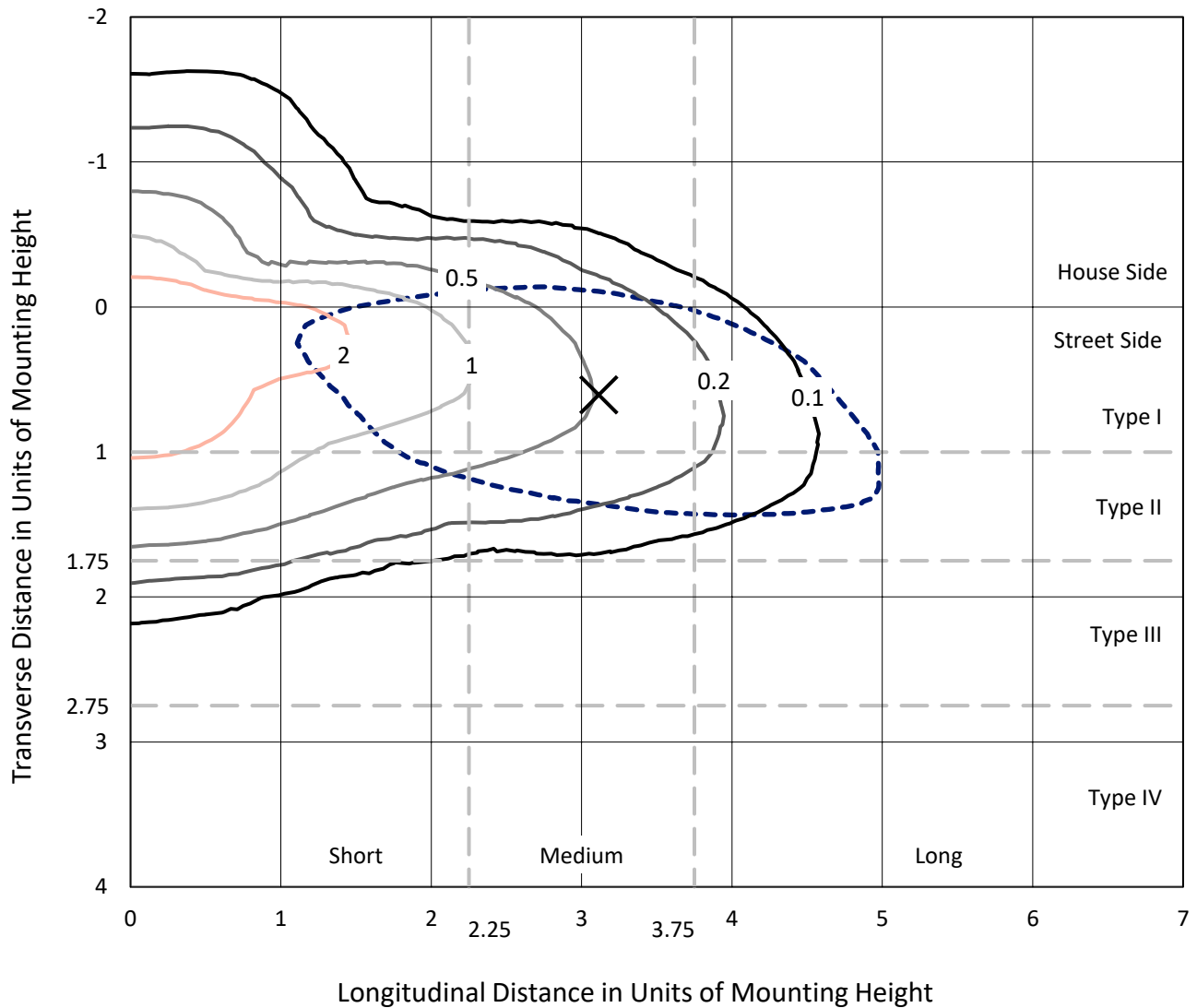
Lumens per Lamp: N/A  
Luminaire Lumens: 11633 lumens  
Efficiency: N/A  
Efficacy: 137.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 84.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

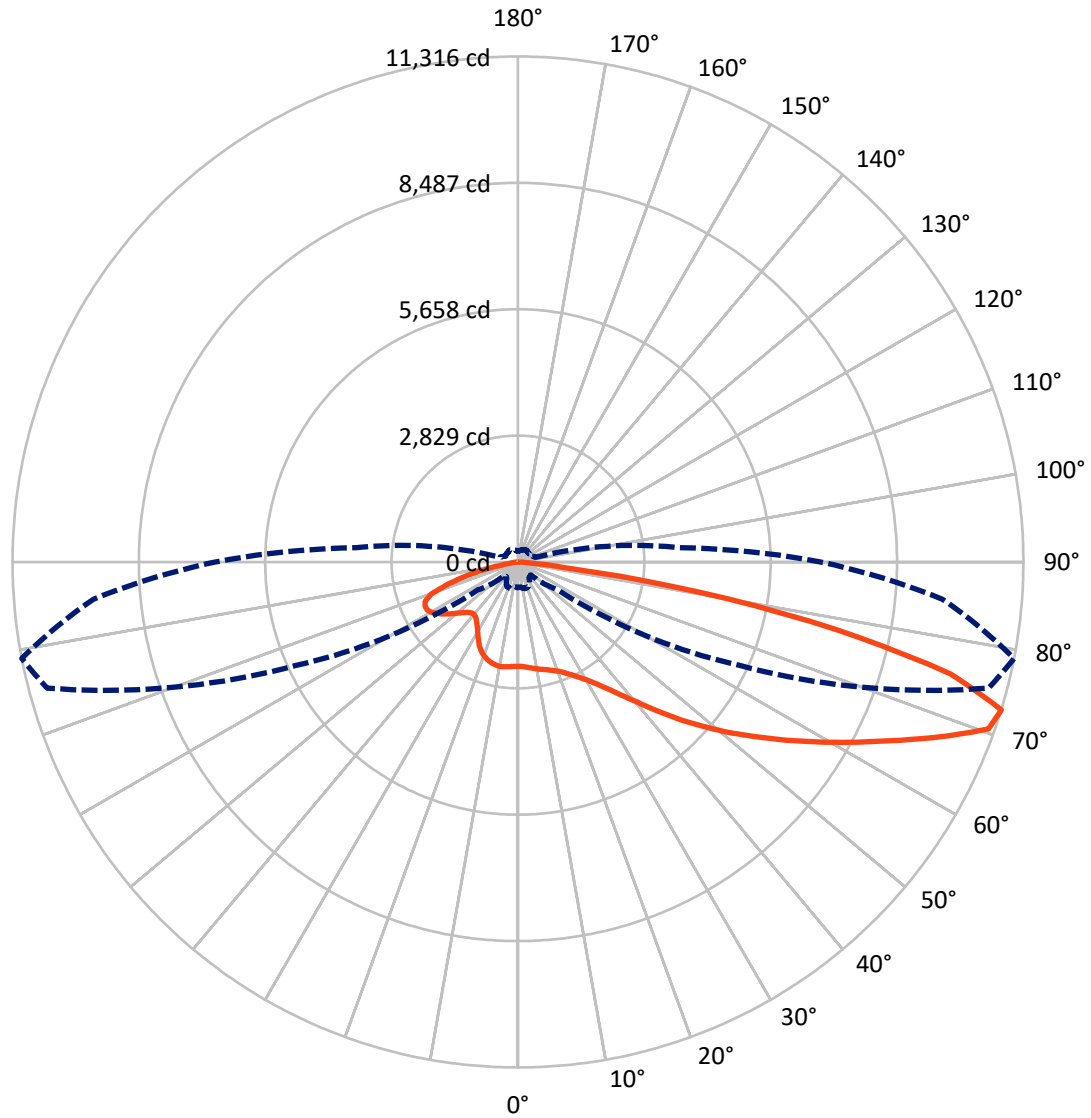
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2559.9	0.0	2559.9
	% Fixture	22.0	0.0	22.0
<b>Street Side</b>	Lumens	9073.1	0.0	9073.1
	% Fixture	78.0	0.0	78.0
<b>Total</b>	Lumens	11633.0	0.0	11633.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	212.0	1.8
10°-20°	554.2	4.8
20°-30°	894.2	7.7
30°-40°	1342.1	11.5
40°-50°	1903.9	16.4
50°-60°	2404.4	20.7
60°-70°	2442.0	21.0
70°-80°	1664.3	14.3
80°-90°	215.9	1.9
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°	11633.0	100.0
0°-180°	11633.0	100.0

**Coefficient of Utilization**



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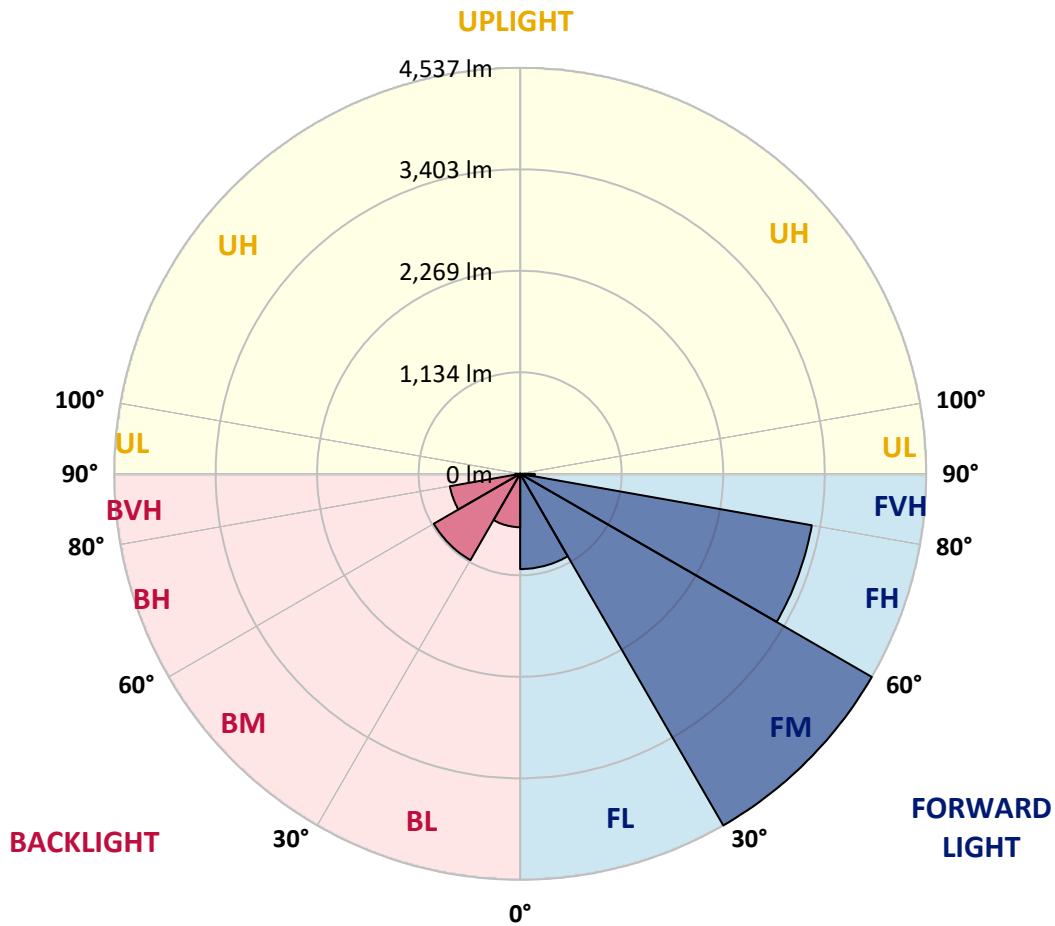
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1064.1	9.1			
FM (30°-60°)	4537.1	39.0			
FH (60°-80°)	3309.2	28.4			G2/5000
FVH (80°-90°)	162.7	1.4			G2/225
BL (0°-30°)	596.3	5.1	B2/1000		
BM (30°-60°)	1113.3	9.6	B2/2500		
BH (60°-80°)	797.1	6.9	B2/1000		G2/1000
BVH (80°-90°)	53.3	0.5			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°	79°
0°	2335.2	2335.2	2335.2	2335.2	2335.2	2335.2	2335.2	2335.2	2335.2	2335.2
2.5°	2336.4	2325.4	2332.1	2329.7	2332.8	2336.4	2337.7	2339.5	2345.7	2345.1
5°	2331.5	2320.4	2329.7	2326.6	2334.6	2343.2	2350.6	2357.4	2367.2	2371.5
7.5°	2321.1	2313.7	2322.9	2332.1	2346.9	2359.8	2370.3	2385.7	2399.8	2402.3
10°	2260.1	2254.6	2276.1	2300.1	2340.8	2375.8	2398.6	2416.4	2431.8	2434.3
12.5°	2196.8	2190.0	2214.0	2246.6	2312.4	2375.8	2423.8	2447.2	2460.7	2468.7
15°	2186.3	2180.8	2194.3	2222.6	2277.4	2359.2	2441.1	2484.1	2495.8	2505.0
17.5°	2236.8	2226.3	2231.8	2241.7	2273.7	2343.8	2454.6	2526.0	2543.8	2553.7
20°	2353.7	2338.9	2330.3	2310.6	2305.1	2346.3	2453.4	2576.4	2599.8	2612.1
22.5°	2509.4	2499.5	2481.0	2431.2	2377.1	2376.4	2476.7	2641.0	2684.7	2696.4
25°	2697.6	2682.9	2659.5	2591.8	2487.8	2436.1	2516.1	2723.5	2796.7	2799.8
27.5°	2914.2	2892.1	2860.1	2770.9	2630.6	2529.7	2576.4	2818.3	2925.3	2924.1
30°	3142.5	3120.4	3086.5	2978.2	2801.6	2655.8	2660.1	2920.4	3077.9	3071.2
32.5°	3309.3	3292.7	3285.9	3202.2	2998.6	2804.7	2756.1	3033.6	3266.2	3260.1
35°	3437.3	3415.8	3423.8	3381.3	3213.3	2971.5	2873.6	3168.4	3495.1	3494.5
37.5°	3564.0	3545.0	3551.7	3523.4	3412.1	3183.2	3017.0	3333.3	3778.8	3792.3
40°	3679.7	3659.4	3686.5	3660.0	3566.5	3408.4	3180.1	3519.7	4107.4	4133.2
42.5°	3749.3	3733.3	3778.2	3778.8	3700.7	3598.5	3359.1	3725.3	4487.7	4545.5
45°	3773.3	3767.7	3835.4	3849.6	3819.4	3708.7	3520.4	3949.3	4897.5	5000.9
47.5°	3747.4	3737.0	3830.5	3882.8	3906.8	3760.3	3653.9	4191.7	5315.9	5467.3
50°	3617.0	3596.7	3735.7	3845.9	3931.4	3794.2	3788.6	4471.7	5791.6	5957.1
52.5°	3382.5	3367.1	3525.3	3716.7	3877.3	3810.8	3940.0	4777.5	6243.2	6457.4
55°	3082.9	3062.5	3236.7	3486.5	3742.5	3805.3	4091.4	5119.6	6776.1	6993.3
57.5°	2607.8	2567.2	2787.5	3082.9	3522.8	3798.5	4248.9	5459.9	7317.6	7577.9
60°	1914.9	1854.6	2124.8	2474.9	3093.3	3732.7	4444.0	5841.4	7967.4	8201.9
62.5°	1115.0	1079.9	1256.5	1583.3	2331.5	3345.0	4553.5	6285.1	8606.1	8852.3
65°	865.8	855.9	871.3	896.5	1297.8	2504.4	4215.7	6717.7	9418.4	9590.7
67.5°	791.9	784.6	791.3	743.9	658.4	1395.0	3335.1	6827.2	10288.5	10393.1
70°	703.9	695.3	717.5	676.9	518.1	634.4	2154.9	6429.7	10980.7	11177.0
72.5°	573.5	563.7	615.3	596.9	436.3	407.4	1082.4	5485.1	10908.1	11315.5
75°	440.6	435.0	496.6	512.0	355.7	320.6	519.3	4077.2	9599.3	10009.7
77.5°	342.1	337.8	369.2	425.2	286.7	248.6	319.4	2586.3	7233.9	7305.9
80°	256.6	244.3	273.2	329.2	223.4	181.5	216.6	1508.2	4572.6	4144.9
82.5°	160.6	154.5	178.4	219.7	157.5	124.9	140.9	833.2	1832.5	1079.3
85°	91.7	89.2	97.2	125.5	85.5	72.0	80.6	368.0	334.7	230.1
87.5°	36.9	35.7	44.3	56.0	31.4	26.5	28.3	88.6	73.8	68.3
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°
2335.2	0°	2335.2	2335.2	2335.2	2335.2	2335.2	2335.2	2335.2	2335.2	2335.2	2335.2
2344.4	2.5°	2342.0	2342.0	2333.4	2319.8	2304.4	2294.6	2278.6	2274.3	2257.7	2252.8
2365.4	5°	2370.3	2365.4	2338.9	2300.8	2248.5	2200.5	2147.5	2114.3	2067.5	2050.9
2406.6	7.5°	2406.0	2392.4	2346.9	2263.2	2153.7	2046.0	1934.0	1849.1	1767.9	1738.9
2440.4	10°	2438.6	2419.5	2342.0	2195.5	2006.0	1819.6	1641.1	1516.2	1421.4	1382.7
2478.0	12.5°	2471.2	2436.1	2309.4	2082.9	1796.2	1543.3	1353.1	1255.9	1197.5	1150.7
2508.7	15°	2502.0	2452.7	2258.9	1932.2	1566.0	1309.4	1169.1	1091.6	1044.8	1014.1
2553.7	17.5°	2537.7	2466.9	2183.2	1740.8	1347.0	1147.6	1033.2	986.4	977.2	973.5
2615.2	20°	2587.5	2479.8	2083.5	1526.7	1185.8	1018.4	959.3	955.0	954.4	952.5
2689.0	22.5°	2641.0	2495.2	1951.9	1332.2	1048.5	937.8	927.3	918.7	913.2	912.5
2778.3	25°	2704.4	2500.1	1786.9	1172.8	931.6	899.6	887.3	874.4	870.7	870.7
2879.8	27.5°	2766.0	2483.5	1595.0	1034.4	865.8	864.6	848.6	844.2	843.6	845.5
2995.5	30°	2827.5	2452.1	1404.2	906.4	827.6	827.6	822.1	825.2	827.6	833.8
3154.2	32.5°	2910.6	2418.9	1244.8	811.6	794.4	788.3	793.8	799.9	802.4	810.4
3362.8	35°	3032.4	2395.5	1118.1	759.9	759.9	751.9	755.0	753.8	748.3	744.6
3615.1	37.5°	3193.6	2394.3	1013.5	735.9	731.0	729.8	730.4	722.4	700.9	675.0
3920.3	40°	3387.4	2427.5	932.9	719.3	715.6	723.0	719.3	697.8	638.7	593.8
4295.7	42.5°	3647.7	2522.3	881.2	699.0	710.1	719.3	704.6	630.1	590.1	560.0
4723.3	45°	3954.2	2676.1	854.7	677.5	699.6	710.7	639.3	606.7	574.7	538.4
5189.8	47.5°	4301.2	2869.9	848.6	657.2	676.3	683.0	611.6	596.9	560.6	521.2
5658.7	50°	4679.0	3099.5	865.2	633.2	642.4	619.0	602.4	588.9	551.3	512.6
6139.2	52.5°	5069.8	3352.4	898.4	600.6	608.6	582.7	598.7	587.0	545.8	493.5
6635.8	55°	5453.8	3607.1	930.4	562.4	574.1	550.1	588.3	579.6	520.6	461.5
7165.6	57.5°	5843.9	3860.6	961.8	528.6	540.9	518.7	571.7	560.0	492.3	432.0
7744.1	60°	6249.4	4106.8	976.5	496.0	504.6	489.8	546.4	526.1	460.3	401.8
8312.6	62.5°	6629.1	4311.7	952.5	463.4	468.9	462.7	513.2	486.1	428.3	368.0
8905.2	65°	7009.9	4433.5	878.7	431.4	432.6	429.5	466.4	443.0	390.7	338.4
9423.9	67.5°	7355.2	4501.8	761.2	396.9	393.8	392.6	422.7	396.3	354.4	308.9
9818.4	70°	7428.4	4328.3	581.5	356.3	356.3	353.2	374.7	347.7	314.4	277.5
9535.9	72.5°	6784.7	3641.0	412.9	310.1	315.1	308.9	326.7	304.0	273.8	249.2
8218.5	75°	5471.0	2670.0	300.3	262.8	271.4	260.9	277.5	261.5	235.7	235.1
5663.6	77.5°	3759.1	1651.0	217.8	216.6	222.8	209.2	228.3	219.7	196.3	185.8
2465.1	80°	1604.2	658.4	158.8	167.4	167.4	155.1	177.2	179.7	159.4	154.5
475.7	82.5°	319.4	187.1	111.4	115.1	108.3	104.6	125.5	139.1	192.0	213.5
143.4	85°	96.0	68.9	67.1	62.8	55.4	56.0	73.8	139.7	172.3	98.5
47.4	87.5°	26.5	17.2	17.8	14.2	11.7	15.4	25.2	105.8	57.8	24.6
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°
2335.2
2260.8
2063.2
1742.6
1391.3
1166.1
1019.6
975.9
958.7
919.3
874.4
850.4
838.1
817.2
753.2
675.6
592.6
558.7
536.0
518.1
508.3
489.8
458.4
430.7
400.0
367.4
334.7
305.2
276.3
241.8
211.7
174.1
154.5
214.1
84.9
20.9
0.0

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