

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: P947148

Luminaire Tested: **GALN-SB2C-830-U-SL3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947148  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB2C-830-U-SL3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

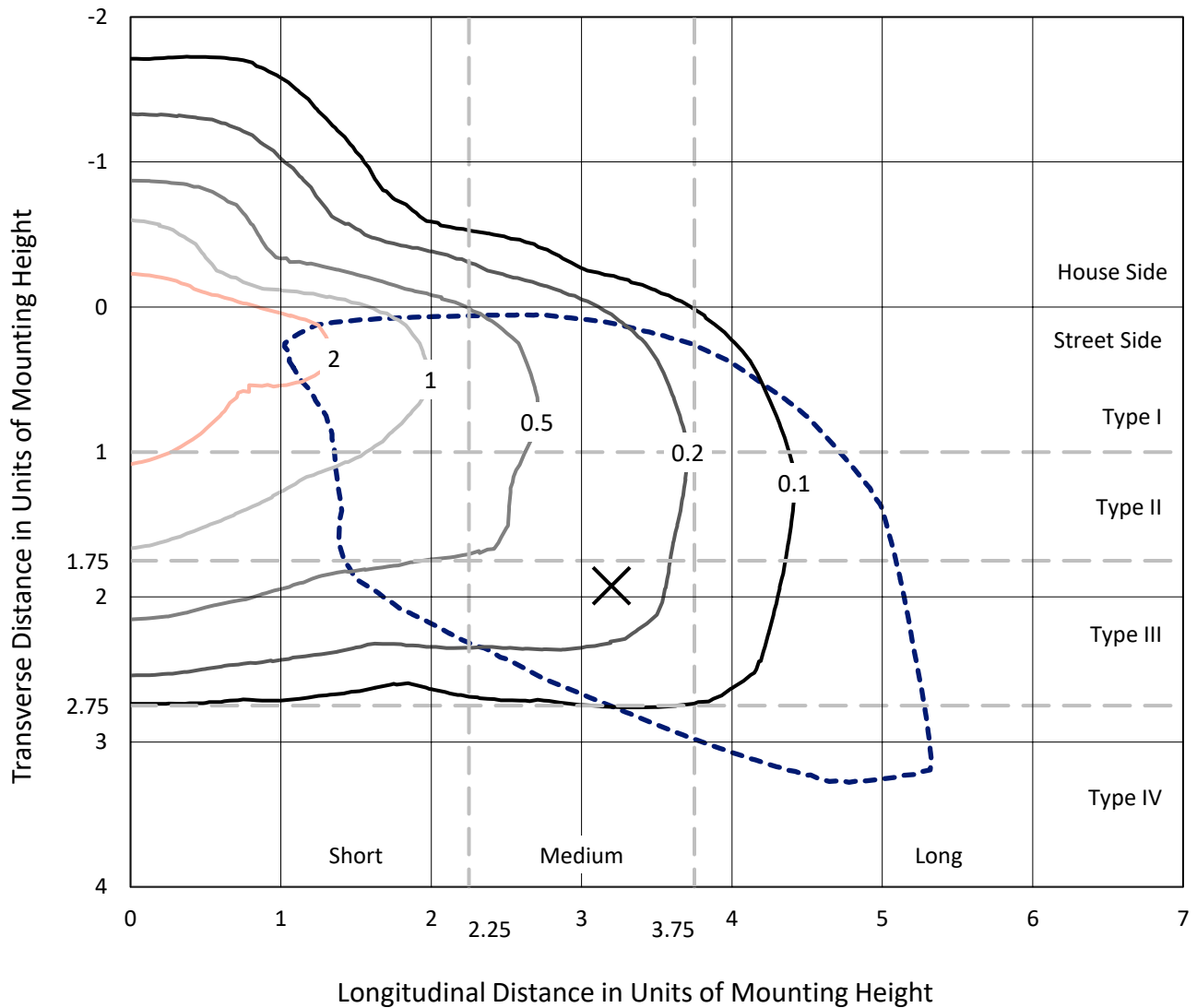
Lumens per Lamp: N/A  
Luminaire Lumens: 13152 lumens  
Efficiency: N/A  
Efficacy: 130.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 100.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

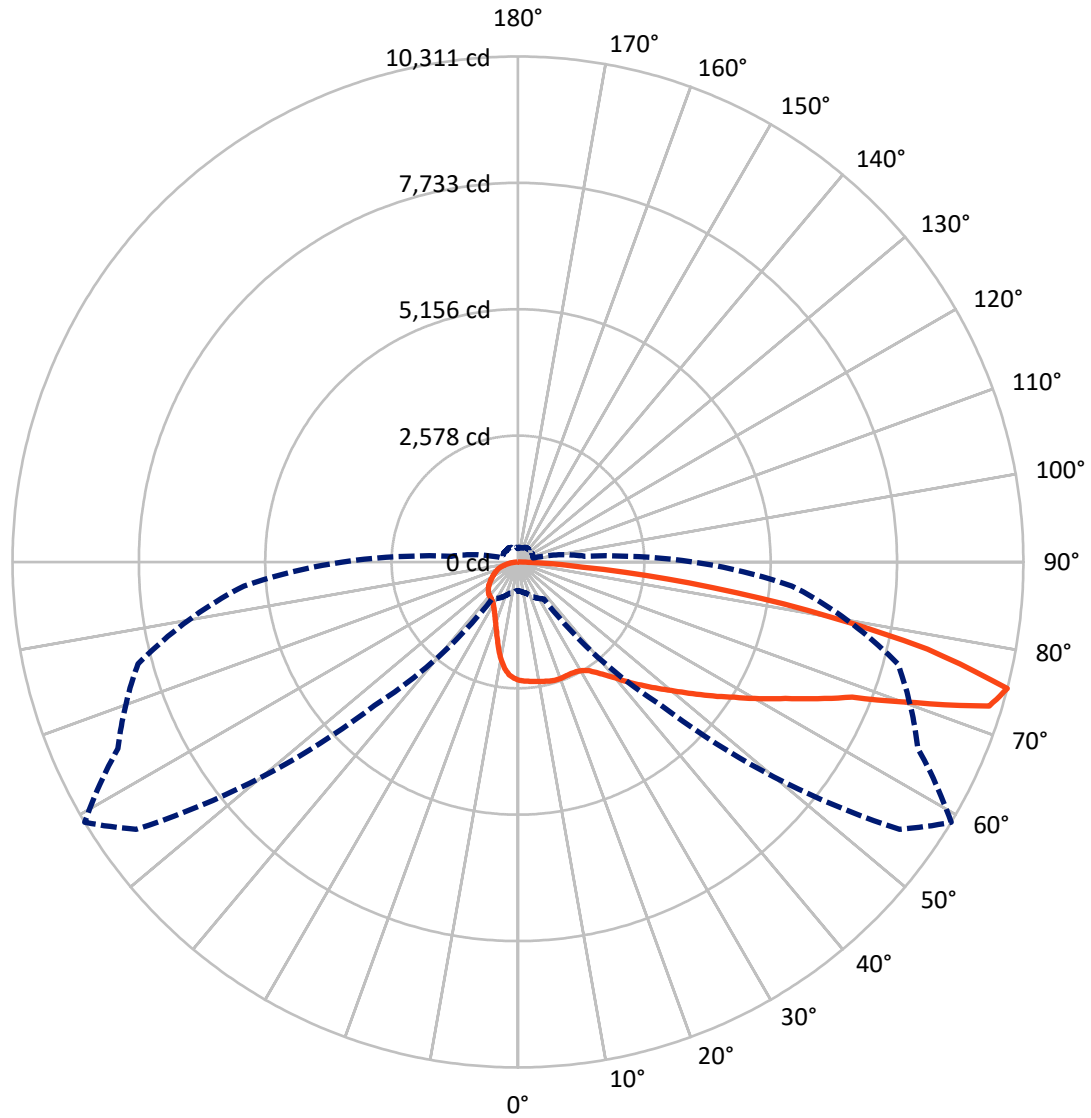
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2466.7	0.0	2466.7
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	10685.2	0.0	10685.2
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	13152.0	0.0	13152.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	216.5	1.6
10°-20°	553.3	4.2
20°-30°	840.4	6.4
30°-40°	1249.2	9.5
40°-50°	1857.8	14.1
50°-60°	2521.7	19.2
60°-70°	3078.6	23.4
70°-80°	2416.1	18.4
80°-90°	418.5	3.2
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°	13152.0	100.0
0°-180°	13152.0	100.0

**Coefficient of Utilization**



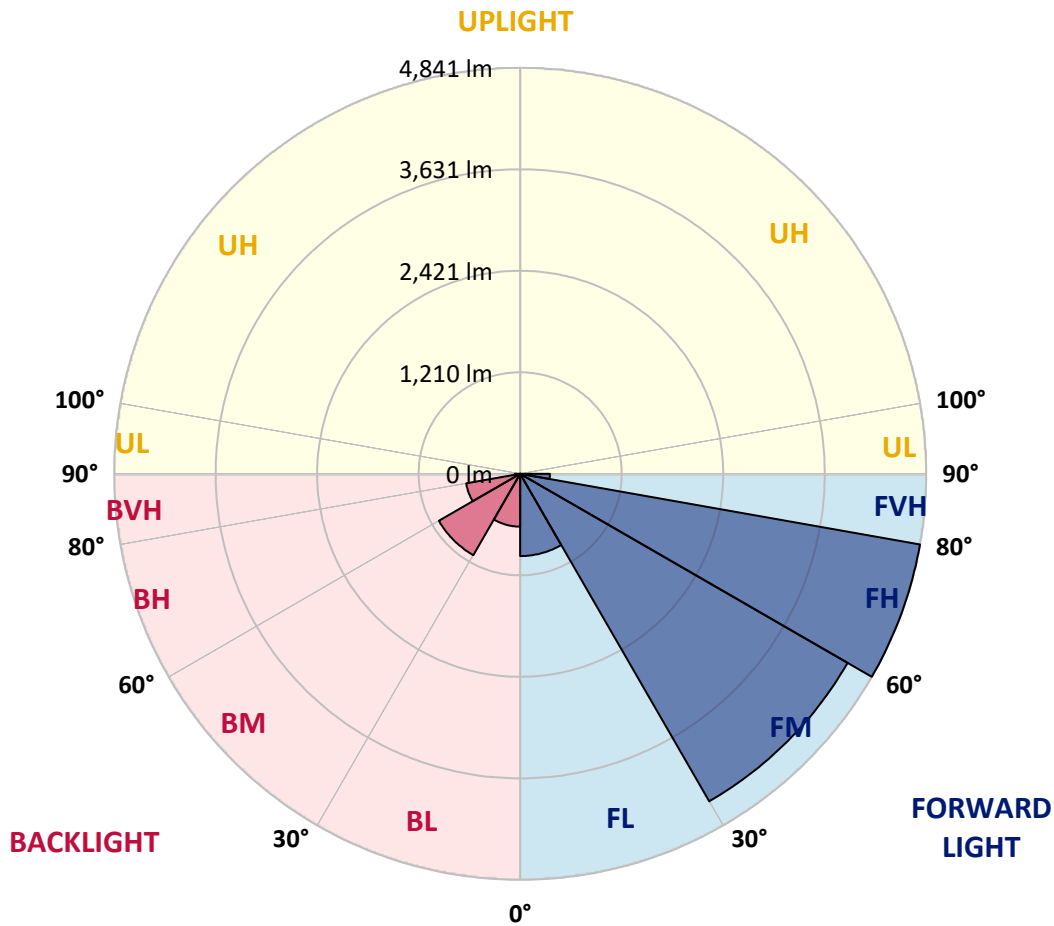
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 CATALOG NUMBER: GALN-SB2C-830-U-SL3

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	980.6	7.5			
FM (30°-60°)	4509.1	34.3			
FH (60°-80°)	4841.1	36.8			G2/5000
FVH (80°-90°)	354.4	2.7			G3/500
BL (0°-30°)	629.5	4.8	B2/1000		
BM (30°-60°)	1119.7	8.5	B2/2500		
BH (60°-80°)	653.5	5.0	B2/1000		G2/1000
BVH (80°-90°)	64.1	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-G3**

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	2414.0	2414.0	2414.0	2414.0	2414.0	2414.0	2414.0	2414.0	2414.0	2414.0
2.5°	2434.5	2426.0	2434.5	2431.0	2429.6	2426.8	2427.5	2432.4	2429.6	2433.1
5°	2418.3	2413.3	2421.8	2419.7	2428.9	2430.3	2439.5	2445.2	2448.7	2449.4
7.5°	2391.4	2386.4	2398.5	2408.4	2428.2	2433.8	2452.9	2462.1	2467.1	2475.6
10°	2293.0	2290.9	2320.6	2358.1	2404.8	2433.8	2462.8	2478.4	2486.2	2508.8
12.5°	2119.0	2121.8	2160.7	2232.9	2326.3	2419.7	2474.2	2496.8	2508.8	2537.1
15°	1952.7	1952.0	1994.5	2071.6	2202.5	2357.4	2479.8	2518.7	2539.2	2581.0
17.5°	1856.5	1853.7	1883.4	1942.1	2063.8	2261.9	2465.7	2530.8	2574.6	2627.0
20°	1838.8	1833.2	1848.7	1877.7	1964.0	2157.2	2428.9	2530.8	2602.9	2670.8
22.5°	1903.2	1894.0	1887.6	1884.1	1922.3	2070.9	2387.1	2522.3	2644.7	2733.8
25°	2032.7	2018.5	1986.0	1954.1	1942.8	2032.0	2350.3	2520.1	2706.9	2818.7
27.5°	2242.1	2224.4	2158.6	2082.2	2013.6	2051.8	2334.1	2532.9	2775.6	2908.6
30°	2501.8	2482.6	2399.9	2282.4	2159.3	2125.4	2354.6	2570.4	2863.3	3028.1
32.5°	2734.5	2713.3	2642.5	2523.0	2356.7	2252.7	2419.7	2641.8	3001.3	3194.4
35°	2941.1	2916.4	2852.7	2742.3	2598.7	2431.7	2537.1	2768.5	3197.2	3464.7
37.5°	3143.5	3114.5	3045.1	2928.4	2827.9	2670.1	2699.1	2931.2	3457.6	3793.0
40°	3369.9	3328.1	3243.9	3128.6	3031.0	2949.6	2912.1	3130.7	3722.2	4159.4
42.5°	3589.2	3549.6	3449.1	3350.8	3228.4	3205.0	3159.0	3364.2	4011.6	4562.0
45°	3825.5	3778.1	3656.4	3531.9	3454.8	3374.8	3398.2	3597.7	4295.3	4972.4
47.5°	4047.0	3993.9	3850.3	3711.6	3669.1	3517.7	3617.5	3854.5	4590.3	5388.4
50°	4166.5	4114.2	3994.6	3869.4	3836.1	3693.9	3855.2	4136.8	4899.5	5803.0
52.5°	4266.3	4209.7	4053.3	3984.0	3974.1	3885.6	4148.1	4459.4	5208.7	6169.5
55°	4372.4	4309.4	4109.9	4047.7	4092.9	4100.7	4495.5	4825.2	5535.5	6526.8
57.5°	4494.8	4414.9	4164.4	4101.4	4209.0	4352.6	4894.5	5204.4	5856.8	6857.9
60°	4610.1	4529.5	4269.1	4187.0	4334.2	4644.8	5352.3	5663.6	6220.4	7152.9
62.5°	4632.8	4566.3	4352.6	4351.9	4504.0	4985.8	5894.3	6127.0	6538.1	7444.4
65°	4240.8	4199.1	4072.4	4345.5	4747.4	5476.8	6497.8	6719.9	6942.1	7699.1
67.5°	3227.7	3233.3	3224.1	3751.2	4550.7	6182.2	7371.5	7354.6	7440.9	7984.9
70°	1475.9	1509.1	1725.6	2589.5	3645.8	6263.6	8816.3	8596.2	8067.0	8355.0
72.5°	797.4	822.8	911.3	1254.4	2191.9	5568.8	9895.9	10052.3	8899.8	8604.0
75°	585.1	599.3	660.8	797.4	920.5	4138.9	9508.9	10311.2	9003.8	8023.2
77.5°	437.9	444.3	494.5	631.8	471.2	2182.0	7597.9	8539.6	7707.6	6591.9
80°	317.7	324.7	362.2	474.0	330.4	798.1	5217.2	5994.0	5278.7	4201.9
82.5°	219.3	222.2	238.4	322.6	230.6	309.9	2960.2	3514.9	2946.8	1474.4
85°	132.3	135.8	142.9	188.2	130.9	147.2	1277.8	1321.6	880.8	352.3
87.5°	54.5	58.0	63.7	79.2	51.6	41.0	210.8	264.6	164.8	103.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P947148  
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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2414.0	0°	2414.0	2414.0	2414.0	2414.0	2414.0	2414.0	2414.0	2414.0	2414.0	2414.0
2421.1	2.5°	2417.6	2412.6	2399.2	2380.8	2363.8	2342.6	2333.4	2325.6	2318.5	2305.1
2440.2	5°	2432.4	2419.0	2382.9	2336.2	2283.1	2225.1	2168.5	2129.6	2096.3	2071.6
2462.1	7.5°	2455.1	2429.6	2363.8	2268.3	2146.6	2022.1	1909.6	1829.6	1769.5	1747.5
2493.3	10°	2478.4	2448.0	2333.4	2165.0	1954.8	1763.1	1613.8	1531.8	1483.6	1468.1
2530.1	12.5°	2506.0	2461.4	2286.0	2021.4	1740.5	1530.3	1400.2	1352.0	1327.3	1318.8
2575.3	15°	2546.3	2472.7	2214.5	1841.6	1536.0	1360.5	1276.3	1243.1	1230.4	1229.7
2622.0	17.5°	2576.7	2474.9	2103.4	1649.2	1378.9	1258.0	1188.6	1175.9	1184.4	1197.1
2668.0	20°	2610.7	2455.8	1957.7	1473.7	1268.6	1168.1	1139.1	1147.6	1168.1	1186.5
2728.9	22.5°	2634.8	2421.1	1781.5	1337.2	1173.0	1116.4	1115.0	1132.7	1144.0	1153.2
2800.3	25°	2656.0	2362.4	1594.7	1222.6	1094.5	1085.3	1100.9	1095.2	1087.4	1095.2
2871.8	27.5°	2671.6	2269.7	1427.8	1122.1	1039.3	1064.1	1054.9	1042.2	1041.5	1045.7
2956.0	30°	2666.6	2145.9	1290.5	1026.6	1000.4	1024.5	1002.5	1000.4	998.3	1000.4
3082.6	32.5°	2666.6	2005.1	1185.1	960.8	975.7	966.5	964.3	959.4	950.9	950.2
3254.5	35°	2681.5	1864.3	1094.5	925.4	955.1	933.2	934.6	922.6	904.9	896.4
3482.4	37.5°	2711.9	1751.1	1004.7	908.4	919.1	918.3	912.7	892.2	861.0	834.2
3766.8	40°	2785.5	1717.8	943.1	900.7	902.1	910.6	895.7	856.1	785.3	741.5
4055.4	42.5°	2900.8	1773.7	929.7	881.6	890.8	899.2	870.2	778.3	728.0	701.8
4358.3	45°	3047.2	1871.4	958.7	854.0	863.9	878.7	792.4	748.5	725.9	726.6
4658.2	47.5°	3232.6	1973.9	1012.4	829.9	825.0	833.4	740.8	713.9	682.7	690.5
4946.2	50°	3447.0	2078.0	1063.4	797.4	781.8	754.2	707.5	682.0	642.4	624.0
5224.2	52.5°	3679.0	2178.4	1083.9	757.7	735.1	703.3	684.9	653.7	605.6	575.2
5486.7	55°	3899.1	2269.7	1061.3	710.3	688.4	663.6	660.8	641.7	590.1	547.6
5720.2	57.5°	4107.1	2346.1	1004.7	662.2	641.0	626.1	645.2	636.1	571.0	516.5
5941.0	60°	4283.3	2398.5	922.6	613.4	598.6	590.8	619.8	616.9	544.1	483.2
6139.1	62.5°	4423.3	2419.0	832.0	566.7	563.2	549.0	584.4	584.4	510.1	450.7
6313.1	65°	4533.0	2399.2	740.1	520.7	527.8	506.6	541.2	537.0	474.0	421.7
6513.3	67.5°	4629.9	2334.1	638.2	475.4	491.7	464.8	496.0	486.1	434.4	392.7
6686.7	70°	4673.1	2182.7	522.1	430.2	450.0	423.8	450.7	432.3	389.8	361.5
6496.3	72.5°	4326.4	1814.1	411.1	382.8	399.7	378.5	401.9	380.6	341.7	329.0
5609.8	75°	3579.3	1361.2	316.3	331.1	343.8	327.6	343.1	327.6	292.2	301.4
4143.9	77.5°	2599.4	919.1	242.0	276.6	282.3	273.8	287.2	269.6	237.7	235.6
2065.2	80°	1292.6	538.4	189.6	218.6	216.5	210.8	226.4	217.9	191.0	202.3
557.5	82.5°	374.3	230.6	138.0	153.5	149.3	150.7	162.0	166.3	249.0	246.9
173.3	85°	117.4	90.6	82.8	85.6	81.4	83.5	95.5	189.6	175.5	102.6
53.8	87.5°	30.4	31.1	20.5	21.9	22.6	26.9	30.4	115.3	55.2	36.1
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

<u>180°</u>
2414.0
2298.7
2051.1
1709.3
1444.0
1320.9
1232.5
1202.1
1192.9
1158.2
1100.2
1052.8
1008.2
959.4
904.9
843.4
747.1
701.8
730.1
710.3
629.0
574.5
547.6
513.7
481.1
448.6
418.8
389.8
355.9
318.4
275.2
225.0
200.2
252.6
111.1
38.2
0.0

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