

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: P941212

Luminaire Tested: **GALN-SB4C-927-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941212
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4C-927-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18110 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G3

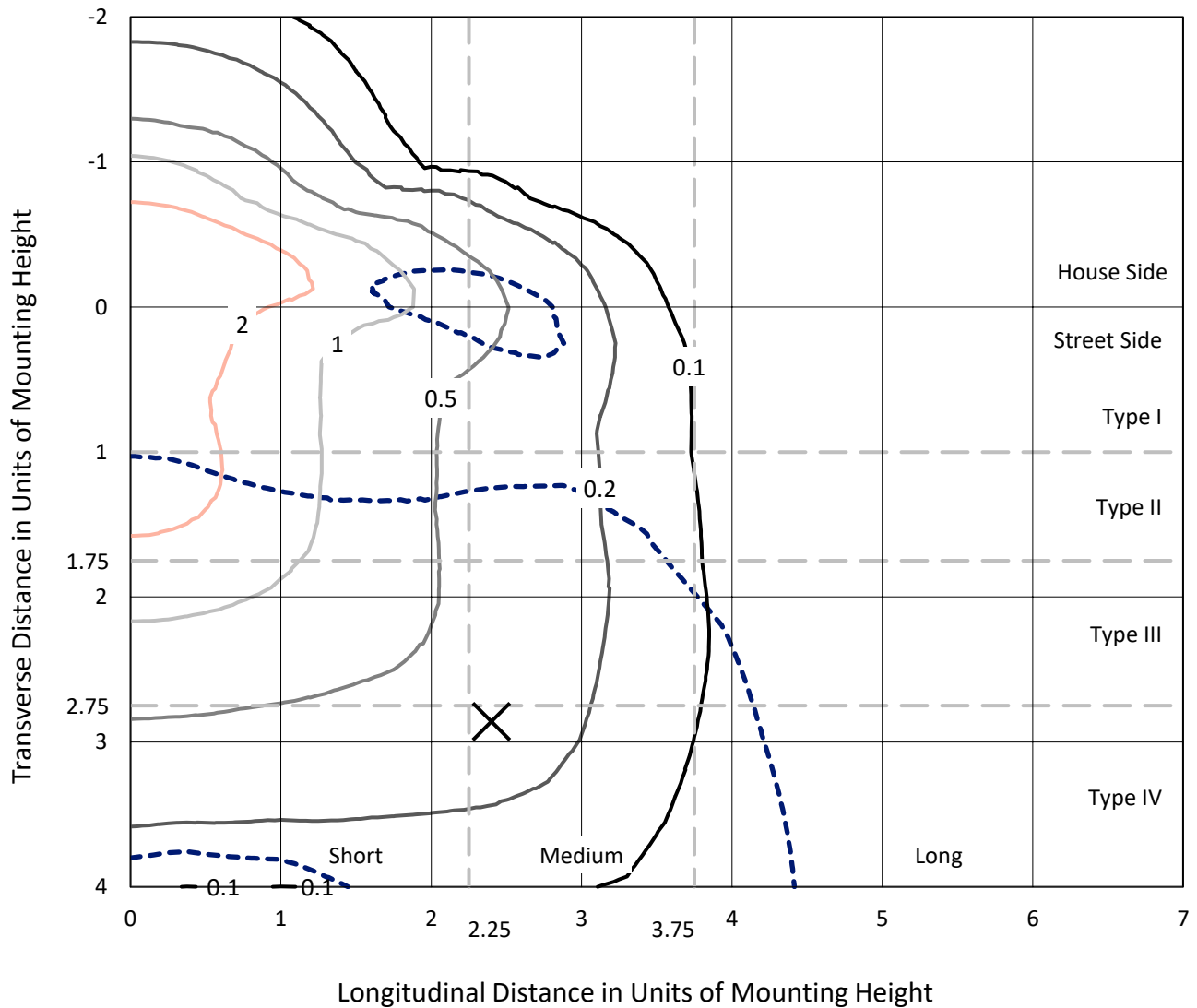
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P941212
 CATALOG NUMBER: GALN-SB4C-927-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

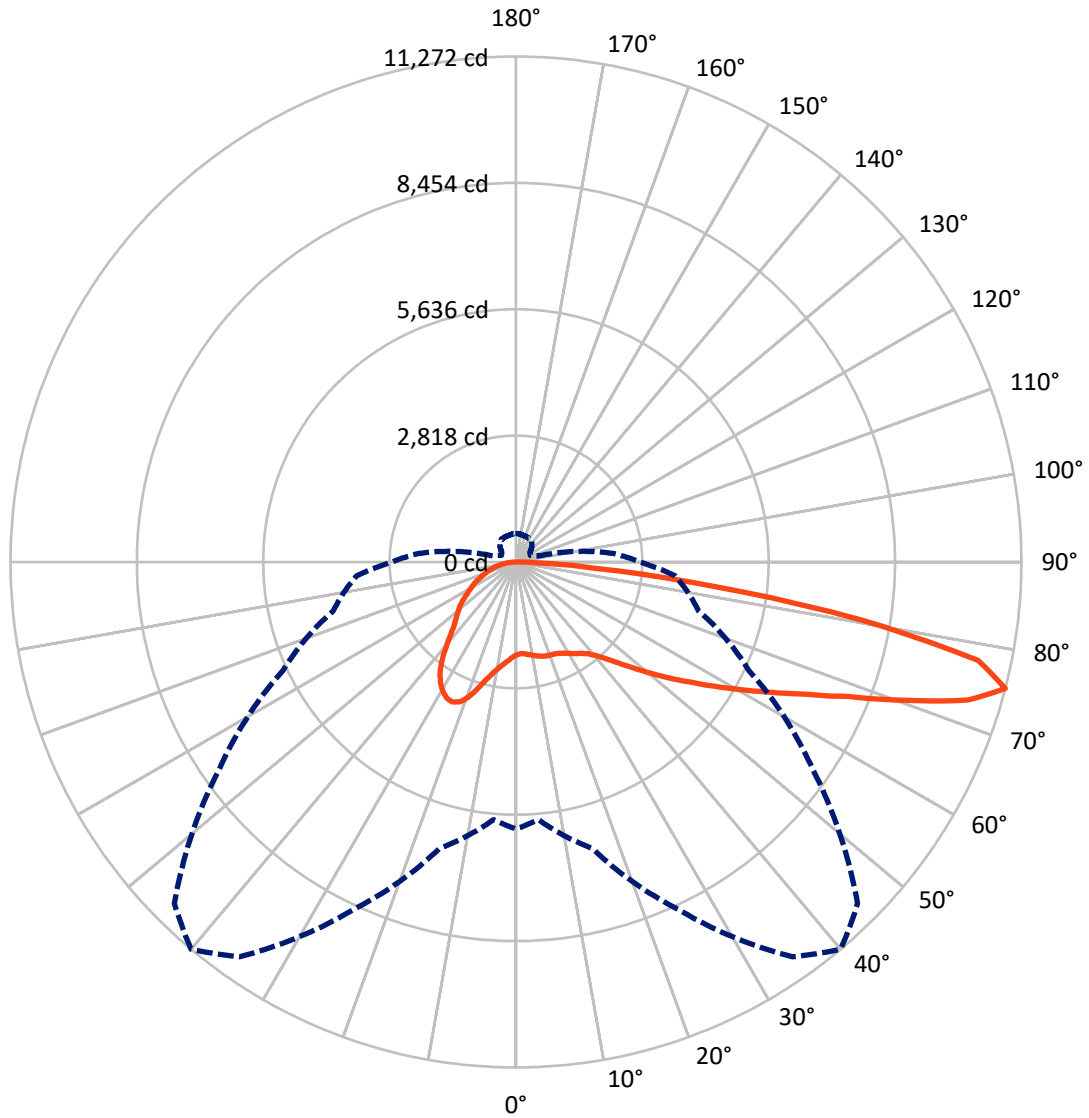
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type IV - Medium - N/A

REPORT NUMBER: P941212
CATALOG NUMBER: GALN-SB4C-927-U-SL4

Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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 CATALOG NUMBER: GALN-SB4C-927-U-SL4

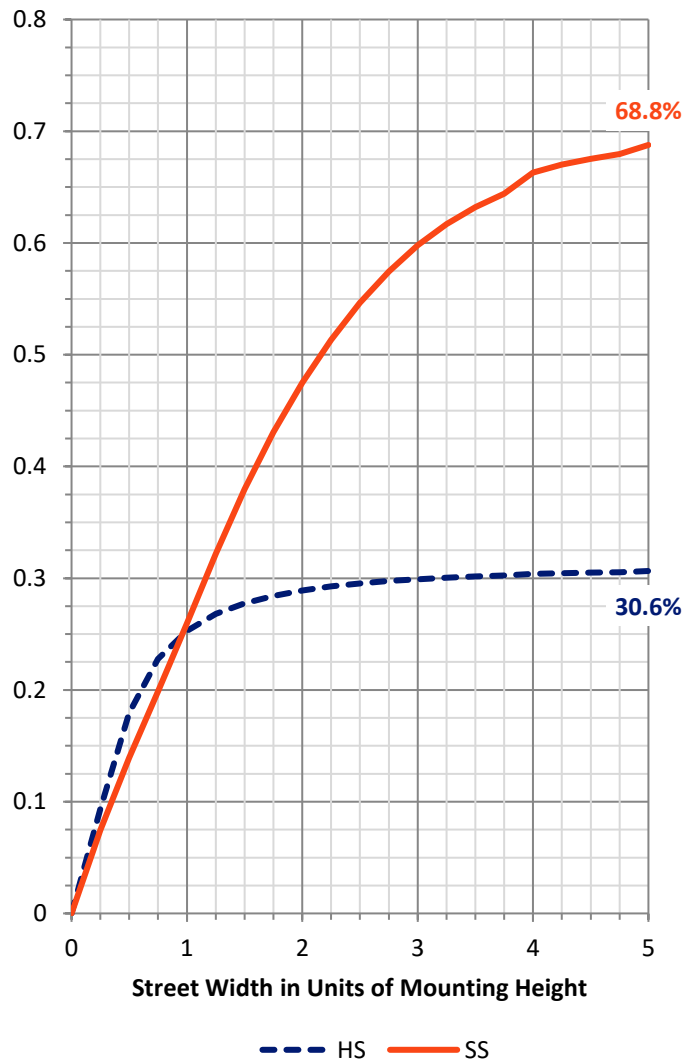
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5611.1	0.0	5611.1
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	12498.9	0.0	12498.9
	% Fixture	69.0	0.0	69.0
Total	Lumens	18110.0	0.0	18110.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.7	1.1
10°-20°	694.0	3.8
20°-30°	1267.3	7.0
30°-40°	1797.3	9.9
40°-50°	2426.9	13.4
50°-60°	3264.9	18.0
60°-70°	4143.9	22.9
70°-80°	3760.8	20.8
80°-90°	548.2	3.0
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°	18110.0	100.0
0°-180°	18110.0	100.0

Coefficient of Utilization



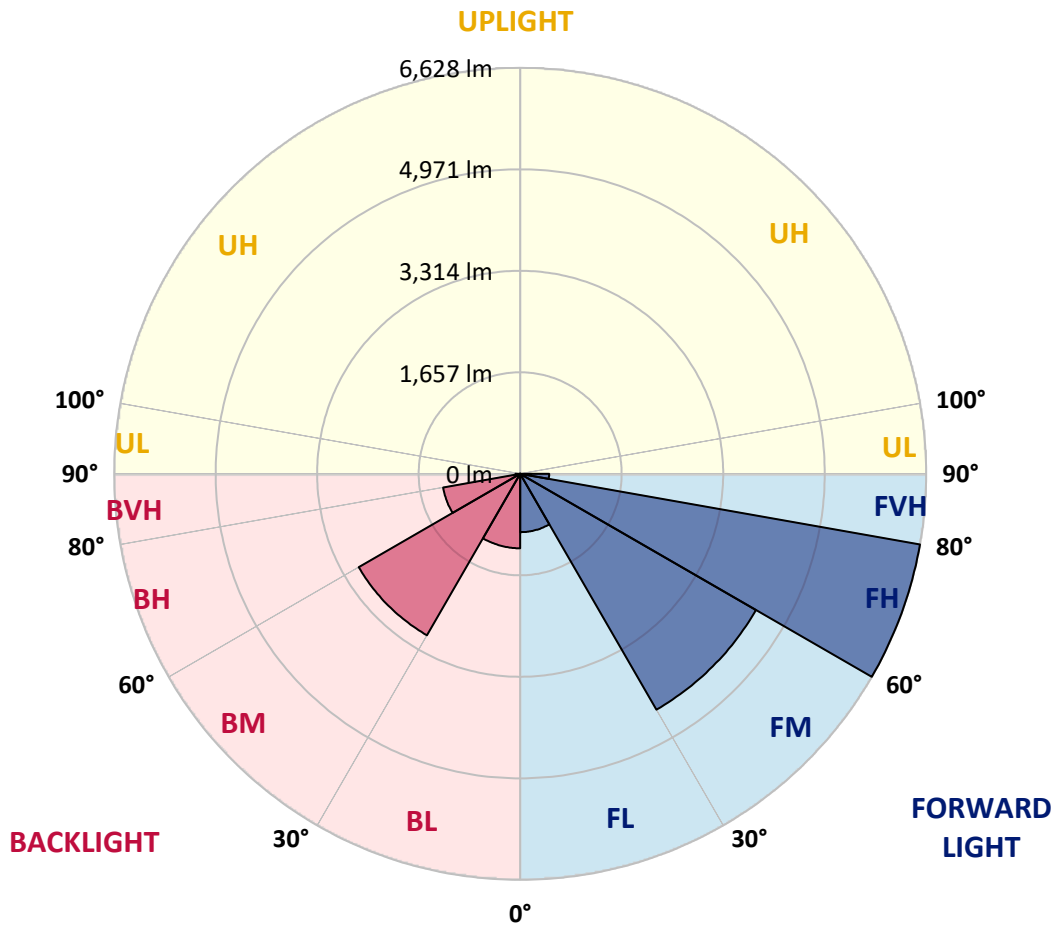
REPORT NUMBER: P941212
 CATALOG NUMBER: GALN-SB4C-927-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	952.6	5.3			
FM (30°-60°)	4445.6	24.5			
FH (60°-80°)	6628.0	36.6			G3/7500
FVH (80°-90°)	472.7	2.6			G3/500
BL (0°-30°)	1215.4	6.7	B3/2500		
BM (30°-60°)	3043.5	16.8	B3/5000		
BH (60°-80°)	1276.7	7.0	B3/2500		G3/2500
BVH (80°-90°)	75.5	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Medium



REPORT NUMBER: P941212

CATALOG NUMBER: GALN-SB4C-927-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	2070.9	2070.9	2070.9	2070.9	2070.9	2070.9	2070.9	2070.9	2070.9	2070.9
2.5°	2039.2	2050.7	2047.8	2044.0	2044.0	2045.0	2044.0	2050.7	2057.5	2064.2
5°	2060.3	2071.9	2066.1	2061.3	2057.5	2056.5	2053.6	2052.7	2056.5	2065.1
7.5°	2101.6	2113.2	2104.5	2095.9	2088.2	2084.4	2080.5	2074.7	2071.9	2076.7
10°	2147.7	2159.3	2148.7	2133.3	2120.9	2116.0	2112.2	2106.4	2102.6	2105.5
12.5°	2193.9	2205.4	2191.0	2169.8	2153.5	2150.6	2145.8	2143.9	2142.9	2142.0
15°	2237.1	2246.7	2228.4	2203.5	2186.2	2181.4	2176.6	2179.4	2184.2	2190.0
17.5°	2270.7	2280.3	2253.4	2220.7	2204.4	2202.5	2199.6	2209.2	2222.7	2237.1
20°	2301.4	2311.0	2276.5	2232.3	2213.1	2213.1	2214.0	2234.2	2253.4	2274.5
22.5°	2344.7	2352.3	2310.1	2249.6	2221.7	2223.6	2231.3	2251.5	2275.5	2304.3
25°	2409.0	2414.8	2362.9	2282.2	2250.5	2256.3	2263.0	2272.6	2295.7	2329.3
27.5°	2512.7	2517.5	2449.4	2339.9	2291.8	2301.4	2311.0	2304.3	2314.9	2343.7
30°	2658.7	2661.6	2575.2	2430.1	2361.9	2366.7	2368.7	2340.8	2320.6	2343.7
32.5°	2831.6	2830.7	2727.9	2539.6	2441.7	2436.9	2420.5	2365.8	2318.7	2338.9
35°	3099.6	3089.1	2956.5	2693.3	2532.0	2502.2	2463.8	2393.6	2328.3	2334.1
37.5°	3543.4	3510.7	3327.3	2945.0	2666.4	2590.5	2533.9	2438.8	2349.5	2332.2
40°	4043.8	4002.5	3800.8	3289.8	2868.1	2746.2	2654.9	2503.1	2384.0	2340.8
42.5°	4637.4	4578.8	4361.8	3696.1	3123.6	2946.9	2809.6	2584.8	2434.9	2368.7
45°	5366.5	5288.7	4981.3	4154.3	3445.4	3210.1	3026.6	2708.7	2512.7	2422.5
47.5°	6103.2	6122.4	5685.4	4678.7	3831.6	3534.8	3298.5	2895.0	2626.1	2508.9
50°	6886.0	6899.5	6385.6	5259.9	4269.6	3901.7	3603.9	3103.5	2783.6	2631.9
52.5°	7496.9	7498.9	7021.5	5867.9	4725.8	4305.1	3933.4	3341.7	2966.1	2795.1
55°	7879.2	7874.4	7467.2	6443.2	5250.3	4728.7	4298.4	3612.6	3189.0	2987.2
57.5°	8156.8	8142.4	7774.5	6937.9	5809.3	5229.1	4711.4	3919.9	3452.1	3215.9
60°	8262.5	8253.8	7983.0	7365.3	6397.1	5782.4	5187.8	4263.8	3750.9	3485.8
62.5°	8302.8	8319.2	8187.6	7779.3	7026.3	6395.2	5711.3	4674.9	4087.1	3791.2
65°	8445.0	8474.8	8447.9	8321.1	7737.1	7112.7	6405.8	5163.8	4454.0	4118.8
67.5°	8726.4	8756.2	8767.7	8969.4	8605.4	8007.0	7272.2	5772.8	4883.3	4458.8
70°	8719.7	8711.0	8914.7	9485.2	9692.7	9245.1	8440.2	6522.0	5395.3	4741.2
72.5°	7936.9	7867.7	8348.9	9479.5	10597.5	10538.0	9866.6	7488.3	5837.1	4775.8
75°	5954.3	5769.9	6620.0	8543.0	10748.3	11271.8	10773.3	8087.7	5732.4	4219.6
77.5°	2546.4	2361.0	3362.8	6324.1	9619.7	10537.0	9941.5	7056.1	4576.0	2790.3
80°	666.6	665.6	1016.2	2867.2	6542.2	7781.3	6826.5	4556.8	2614.6	997.0
82.5°	275.7	268.9	373.6	1115.2	3196.6	4366.6	3563.6	2032.5	944.2	269.9
85°	102.8	101.8	181.5	385.2	1127.7	1801.0	1303.4	519.6	235.3	131.6
87.5°	28.8	27.9	39.4	133.5	274.7	416.9	222.8	85.5	66.3	51.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P941212
 CATALOG NUMBER: GALN-SB4C-927-U-SL4

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2070.9	0°	2070.9	2070.9	2070.9	2070.9	2070.9	2070.9	2070.9	2070.9	2070.9	2070.9
2074.7	2.5°	2077.6	2082.4	2091.1	2097.8	2106.4	2116.0	2129.5	2138.1	2146.8	2152.5
2079.5	5°	2086.3	2096.8	2118.9	2141.0	2167.0	2191.0	2218.8	2239.0	2255.3	2260.1
2096.8	7.5°	2105.5	2122.8	2160.2	2197.7	2239.0	2278.4	2318.7	2353.3	2381.2	2391.7
2127.6	10°	2139.1	2162.2	2215.0	2267.8	2322.6	2383.1	2434.9	2484.9	2524.3	2540.6
2164.1	12.5°	2181.4	2210.2	2279.3	2352.3	2428.2	2511.8	2579.0	2640.5	2689.5	2711.6
2215.0	15°	2236.1	2273.6	2361.9	2459.9	2571.3	2687.6	2773.1	2841.2	2896.0	2922.9
2267.8	17.5°	2295.7	2345.6	2457.0	2605.0	2764.4	2917.1	3017.0	3067.0	3123.6	3149.6
2316.8	20°	2353.3	2414.8	2574.2	2789.4	3001.7	3164.0	3244.7	3258.1	3262.0	3264.8
2362.9	22.5°	2412.9	2495.5	2721.2	3021.8	3249.5	3361.9	3373.4	3315.7	3235.1	3197.6
2408.0	25°	2478.2	2587.7	2913.3	3278.3	3462.7	3476.2	3387.8	3247.6	3094.8	3024.7
2444.5	27.5°	2541.6	2694.3	3143.8	3523.2	3616.4	3498.3	3308.1	3109.2	2924.8	2850.9
2470.5	30°	2605.0	2816.3	3398.4	3737.4	3686.5	3443.5	3182.2	2960.4	2775.0	2697.2
2493.5	32.5°	2669.3	2958.4	3691.3	3892.1	3674.0	3327.3	3025.7	2793.2	2629.9	2548.3
2513.7	35°	2742.3	3133.2	3968.9	3976.6	3590.5	3156.3	2819.2	2593.4	2451.3	2386.0
2537.7	37.5°	2837.4	3355.1	4213.8	3997.7	3444.5	2905.6	2562.7	2357.1	2240.0	2210.2
2573.3	40°	2955.6	3622.2	4401.1	3964.1	3228.3	2601.1	2282.2	2118.0	2051.7	2058.4
2621.3	42.5°	3109.2	3920.9	4532.7	3877.7	2927.7	2287.0	2036.3	1963.3	1995.0	2021.9
2693.3	45°	3309.0	4231.1	4614.4	3730.7	2587.7	2021.0	1891.3	1908.6	1932.6	1935.5
2809.6	47.5°	3564.5	4545.2	4668.2	3508.8	2240.9	1833.7	1799.1	1802.9	1798.1	1777.9
2983.4	50°	3883.4	4850.7	4716.2	3214.9	1946.0	1716.5	1670.4	1656.9	1590.6	1525.3
3214.9	52.5°	4246.5	5131.2	4736.4	2849.9	1716.5	1618.5	1543.6	1459.0	1335.1	1315.0
3505.9	55°	4649.9	5390.5	4684.5	2401.3	1523.4	1492.7	1379.3	1277.5	1264.1	1246.8
3889.2	57.5°	5132.1	5670.0	4578.8	1900.9	1325.5	1345.7	1235.2	1246.8	1222.8	1195.9
4381.9	60°	5659.4	5959.1	4393.5	1444.6	1120.9	1162.2	1197.8	1196.8	1190.1	1168.0
4901.6	62.5°	6133.9	6149.3	4028.5	1106.5	941.3	1020.1	1117.1	1116.1	1110.4	1097.9
5444.3	65°	6416.3	6120.5	3419.5	871.2	793.4	902.9	1007.6	1015.3	1016.2	1015.3
5852.5	67.5°	6366.4	5783.4	2583.8	693.5	671.4	783.8	899.1	909.6	917.3	919.2
5904.4	70°	5801.6	5042.8	1684.8	553.3	562.9	679.1	796.3	806.8	813.6	821.3
5123.5	72.5°	4522.2	3707.6	964.4	447.6	467.8	588.8	694.5	707.0	710.8	725.2
3565.5	75°	2755.8	2180.4	520.6	352.5	384.2	503.3	593.6	608.0	614.7	632.0
1751.0	77.5°	1310.2	944.2	296.8	274.7	309.3	411.1	501.4	517.7	499.5	509.1
483.1	80°	442.8	350.6	187.3	209.4	236.3	320.8	401.5	417.8	379.4	377.5
160.4	82.5°	154.6	142.2	119.1	139.3	152.7	229.6	303.5	324.7	282.4	281.4
72.0	85°	60.5	57.6	66.3	75.9	91.3	141.2	199.8	210.4	173.9	140.2
21.1	87.5°	12.5	13.4	16.3	17.3	27.9	49.0	72.0	88.4	70.1	59.6
0.0	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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<u>180°</u>
2070.9
2148.7
2262.0
2392.7
2541.6
2711.6
2921.0
3148.6
3272.5
3208.2
3035.3
2859.5
2705.8
2558.9
2400.4
2231.3
2081.5
2046.9
1954.7
1793.3
1534.0
1321.7
1249.6
1191.1
1160.3
1093.1
1015.3
921.1
825.1
731.0
633.9
501.4
373.6
268.0
138.3
54.8
0.0

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