

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: P941549

Luminaire Tested: **GALN-SB5A-850-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941549
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5A-850-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21422 lumens
Efficiency: N/A
Efficacy: 151.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

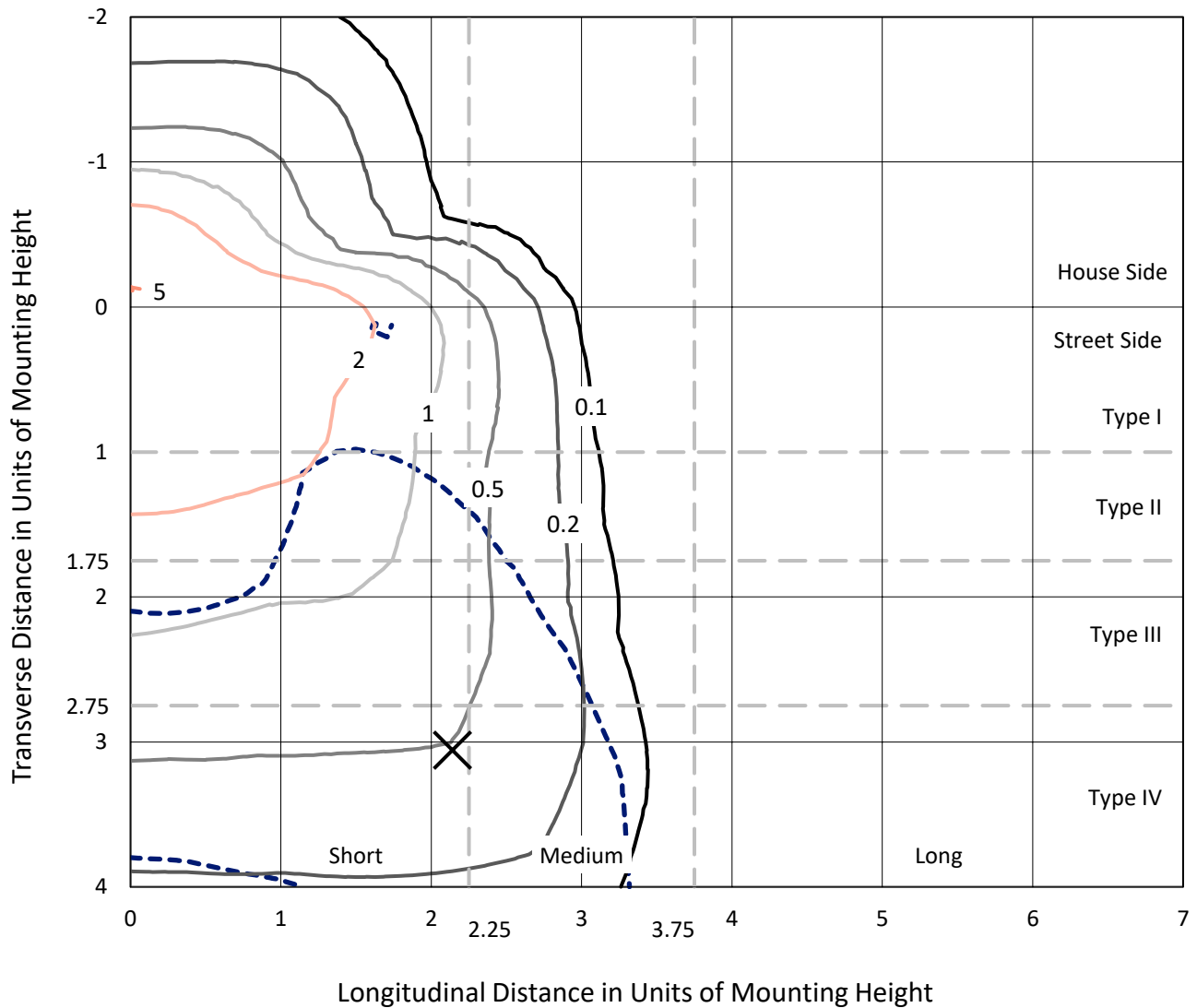
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

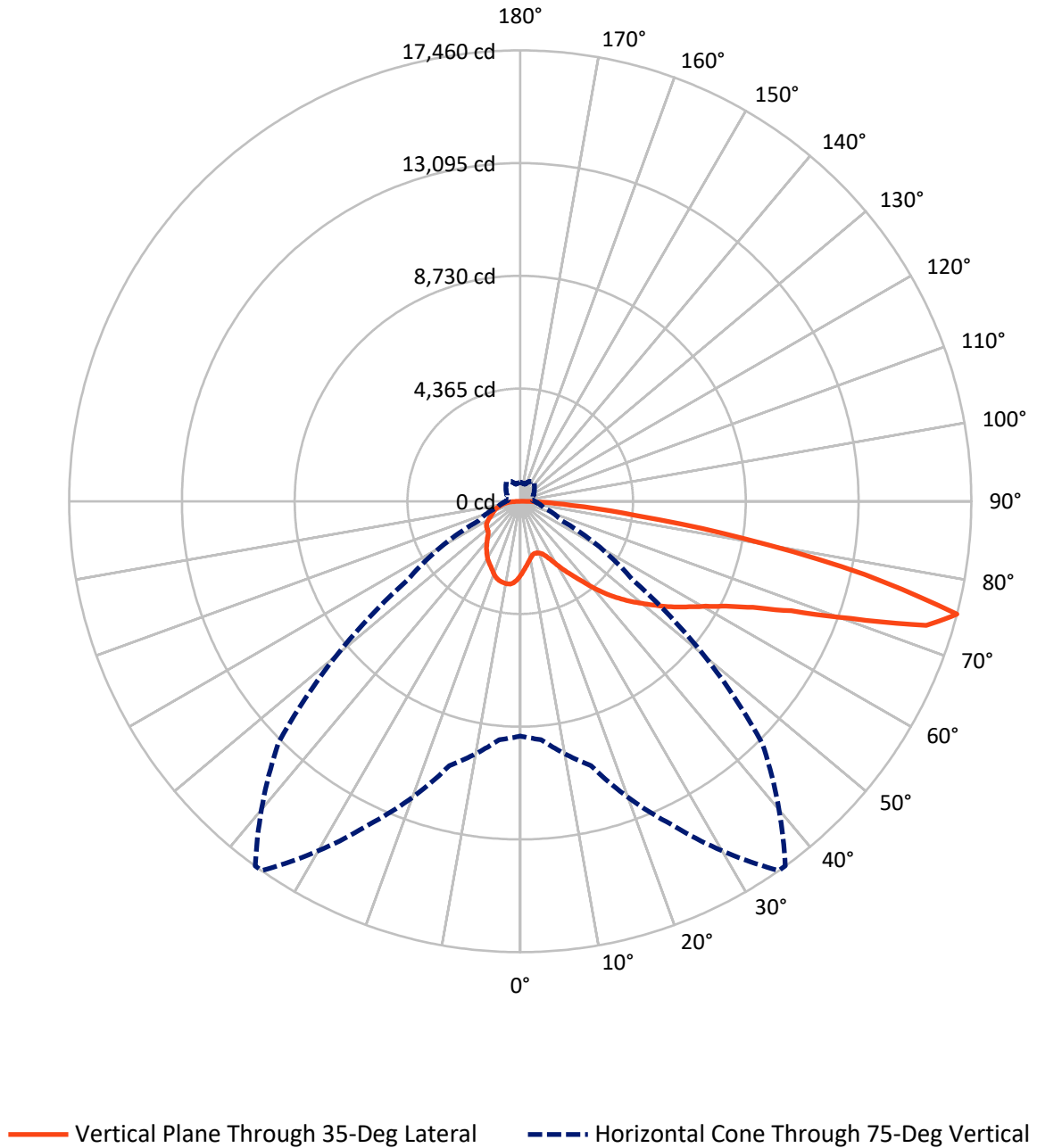
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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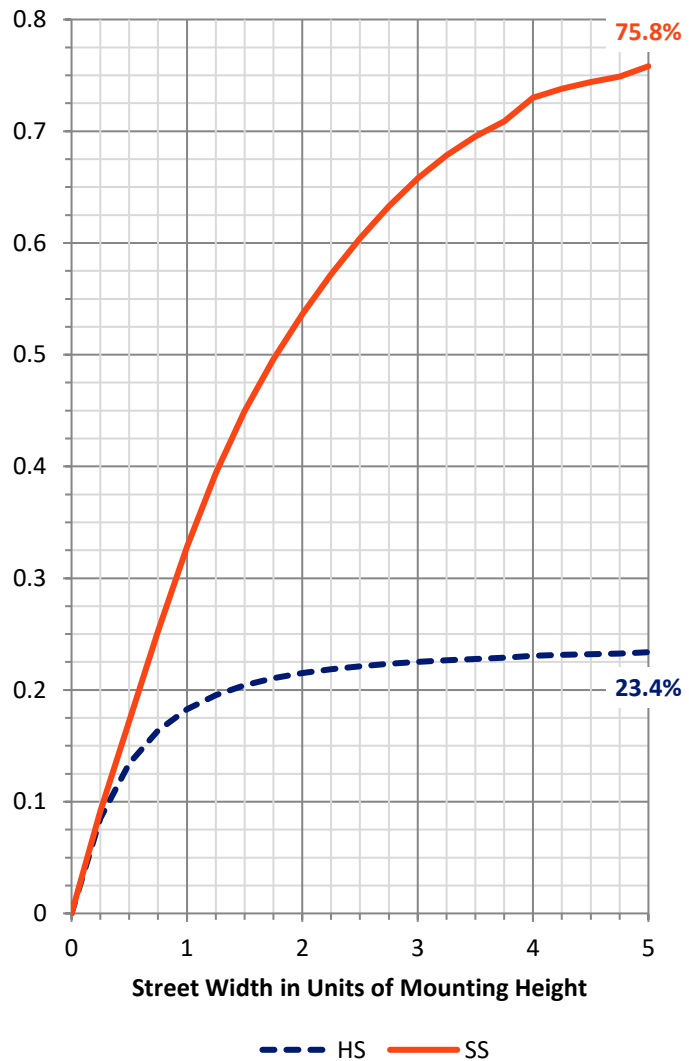
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5097.9	0.0	5097.9
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	16324.1	0.0	16324.1
	% Fixture	76.2	0.0	76.2
Total	Lumens	21422.0	0.0	21422.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.3	1.3
10°-20°	779.6	3.6
20°-30°	1309.1	6.1
30°-40°	2034.6	9.5
40°-50°	3019.9	14.1
50°-60°	4169.1	19.5
60°-70°	5058.1	23.6
70°-80°	4180.1	19.5
80°-90°	601.2	2.8
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°	21422.0	100.0
0°-180°	21422.0	100.0



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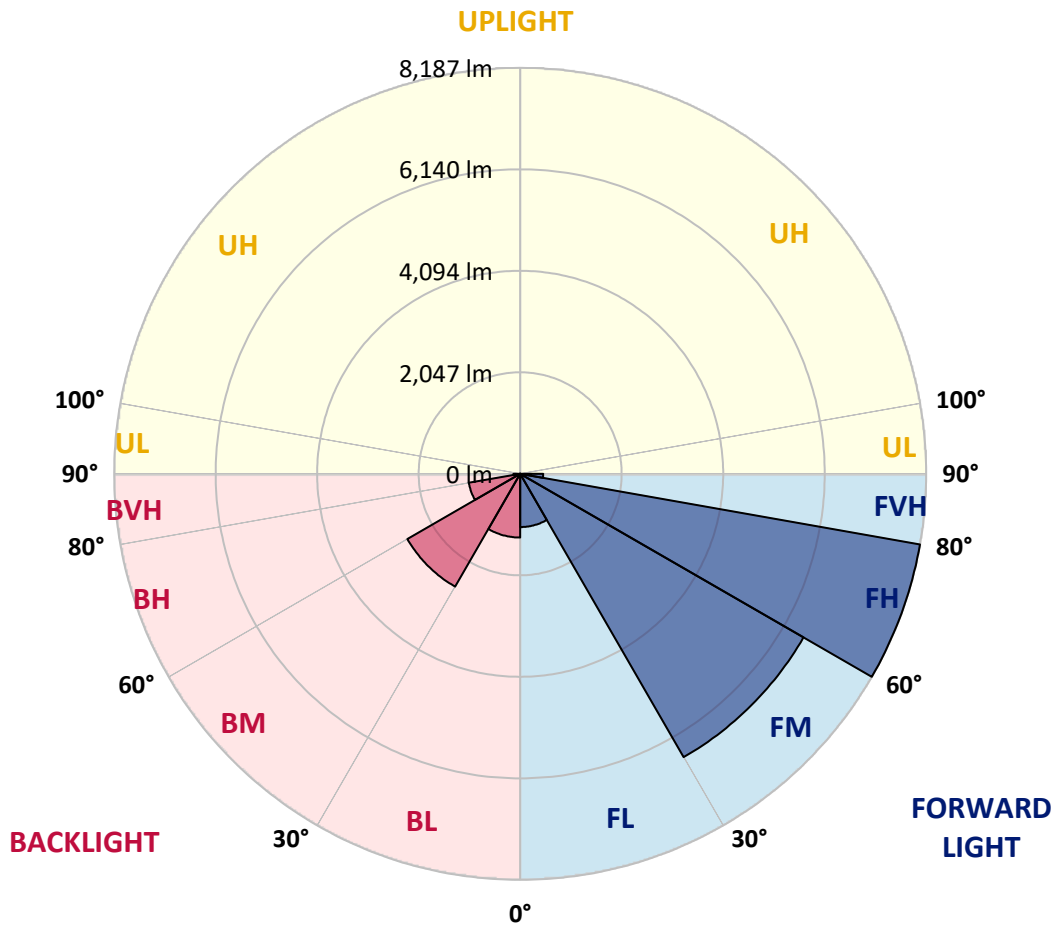
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1074.3	5.0			
FM (30°-60°)	6596.8	30.8			
FH (60°-80°)	8187.2	38.2			G4/12000
FVH (80°-90°)	465.8	2.2			G3/500
BL (0°-30°)	1284.7	6.0	B3/2500		
BM (30°-60°)	2626.7	12.3	B3/5000		
BH (60°-80°)	1051.0	4.9	B3/2500		G3/2500
BVH (80°-90°)	135.4	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	2854.6	2854.6	2854.6	2854.6	2854.6	2854.6	2854.6	2854.6	2854.6	2854.6
2.5°	2632.3	2648.5	2655.4	2652.0	2669.3	2667.0	2691.3	2721.4	2763.1	2803.7
5°	2429.6	2447.0	2462.0	2475.9	2509.5	2519.9	2558.2	2616.1	2692.5	2770.1
7.5°	2240.9	2255.9	2279.1	2304.5	2361.3	2371.7	2435.4	2525.7	2632.3	2745.8
10°	2086.8	2101.9	2126.2	2155.2	2225.8	2238.5	2319.6	2440.0	2579.0	2722.6
12.5°	2020.8	2025.5	2039.3	2068.3	2129.7	2137.8	2227.0	2364.8	2526.9	2705.2
15°	2017.3	2026.6	2027.8	2042.8	2093.8	2097.3	2179.5	2316.1	2494.5	2701.8
17.5°	2052.1	2059.0	2048.6	2057.9	2100.7	2106.5	2171.4	2293.0	2484.0	2716.8
20°	2144.7	2150.5	2119.3	2106.5	2137.8	2142.4	2206.1	2308.0	2494.5	2748.1
22.5°	2341.6	2345.1	2268.6	2216.5	2218.8	2221.2	2276.8	2369.4	2535.0	2804.8
25°	2648.5	2646.2	2524.6	2423.8	2365.9	2353.2	2390.2	2469.0	2603.3	2880.1
27.5°	3007.5	2990.1	2868.5	2718.0	2591.7	2573.2	2565.1	2598.7	2700.6	2979.7
30°	3412.8	3396.6	3265.7	3068.9	2894.0	2863.9	2787.5	2770.1	2845.4	3115.2
32.5°	3857.5	3847.1	3690.7	3452.2	3218.3	3183.5	3055.0	3008.6	3067.7	3320.2
35°	4230.4	4221.1	4091.4	3845.9	3559.9	3517.0	3386.2	3334.1	3364.2	3583.0
37.5°	4567.4	4562.8	4451.6	4258.2	3962.9	3910.8	3763.7	3746.3	3740.5	3929.3
40°	4880.1	4868.5	4752.7	4650.8	4431.9	4384.4	4254.7	4239.7	4195.7	4355.5
42.5°	5226.3	5196.2	5028.3	4980.8	4921.8	4882.4	4804.8	4807.1	4709.8	4836.1
45°	5508.9	5491.5	5319.0	5291.2	5354.9	5338.7	5405.8	5423.2	5234.4	5339.8
47.5°	5812.3	5796.1	5650.2	5630.5	5803.1	5807.7	6045.1	6050.9	5746.3	5863.3
50°	6186.4	6163.2	6018.5	6042.8	6236.2	6253.5	6687.8	6648.4	6217.6	6394.8
52.5°	6433.0	6446.9	6415.7	6455.0	6719.1	6735.3	7320.1	7219.4	6684.3	6919.4
55°	6614.9	6642.7	6739.9	6830.3	7228.6	7244.8	7916.5	7762.5	7071.1	7405.8
57.5°	6848.8	6809.4	6991.2	7167.3	7712.7	7755.6	8496.7	8285.9	7413.9	7825.0
60°	7184.6	7156.8	7298.1	7558.7	8254.7	8323.0	9110.5	8757.3	7665.2	8157.4
62.5°	7865.6	7796.1	7818.1	8048.5	8937.9	9028.3	9803.0	9168.4	7790.3	8287.1
65°	8883.5	8764.2	8653.1	8812.9	9900.3	9989.5	10584.7	9491.5	7744.0	8035.8
67.5°	10165.5	10047.4	9910.7	10061.3	11317.8	11388.4	11549.4	9673.3	7379.2	7067.7
70°	11222.8	11178.8	11342.1	11961.6	13581.8	13584.1	12786.2	9522.8	6379.8	5010.9
72.5°	11082.7	11056.0	11916.5	13831.9	16435.2	16373.9	13957.0	8383.2	4297.6	2260.5
75°	9092.0	9264.5	10597.4	13798.3	17460.1	17452.0	13240.1	5329.4	1777.6	936.9
77.5°	4875.4	5148.8	6880.1	10187.5	13630.4	13835.4	9308.5	1864.5	763.2	599.9
80°	1590.0	1828.6	2742.3	5187.0	8856.9	8818.7	3989.5	731.9	522.3	425.0
82.5°	675.2	702.9	1225.2	2449.3	4545.4	4474.8	1270.4	420.4	367.1	290.7
85°	264.0	295.3	540.8	1132.6	1968.7	1925.9	458.6	208.5	235.1	189.9
87.5°	86.9	105.4	193.4	388.0	612.6	590.6	112.3	71.8	101.9	86.9
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°
2854.6	0°	2854.6	2854.6	2854.6	2854.6	2854.6	2854.6	2854.6	2854.6	2854.6	2854.6
2862.7	2.5°	2878.9	2897.5	2919.5	2951.9	2979.7	3002.9	3027.2	3042.2	3048.0	3065.4
2867.4	5°	2899.8	2940.3	2994.8	3048.0	3100.1	3131.4	3159.2	3173.1	3185.8	3195.1
2880.1	7.5°	2934.5	2986.6	3072.3	3141.8	3185.8	3211.3	3229.8	3225.2	3229.8	3232.2
2894.0	10°	2964.6	3037.6	3139.5	3205.5	3239.1	3240.3	3235.6	3219.4	3211.3	3212.5
2914.8	12.5°	3000.5	3081.6	3191.6	3247.2	3256.5	3231.0	3211.3	3183.5	3173.1	3168.5
2946.1	15°	3049.2	3141.8	3248.4	3269.2	3246.1	3213.6	3180.0	3134.9	3111.7	3093.2
2999.4	17.5°	3108.2	3210.2	3292.4	3277.3	3227.5	3174.3	3119.8	3051.5	3004.0	2984.3
3072.3	20°	3190.5	3282.0	3326.0	3259.9	3184.7	3103.6	3011.0	2927.6	2883.6	2863.9
3165.0	22.5°	3290.1	3378.1	3358.4	3229.8	3123.3	2993.6	2877.8	2816.4	2794.4	2780.5
3284.3	25°	3409.3	3484.6	3381.5	3185.8	3022.5	2847.7	2758.5	2738.8	2728.4	2718.0
3430.2	27.5°	3564.5	3605.1	3398.9	3121.0	2865.0	2692.5	2660.1	2663.5	2660.1	2642.7
3632.8	30°	3769.5	3761.4	3415.1	3015.6	2684.4	2552.4	2554.7	2569.7	2572.1	2560.5
3915.4	32.5°	4039.3	3957.1	3423.2	2878.9	2511.8	2429.6	2431.9	2448.1	2459.7	2440.0
4284.8	35°	4365.9	4185.2	3410.5	2707.6	2378.7	2312.7	2295.3	2299.9	2303.4	2284.9
4733.0	37.5°	4746.9	4441.2	3353.8	2517.6	2268.6	2198.0	2160.9	2129.7	2111.1	2093.8
5240.2	40°	5165.0	4720.3	3249.5	2332.3	2145.9	2076.4	2020.8	1961.8	1899.2	1876.1
5777.6	42.5°	5602.7	5007.5	3123.3	2155.2	2004.6	1947.9	1888.8	1803.1	1709.3	1661.8
6335.8	45°	6056.7	5301.6	2999.4	1980.3	1859.8	1835.5	1767.2	1664.1	1562.2	1502.0
6895.1	47.5°	6501.4	5579.5	2817.6	1804.3	1724.4	1751.0	1697.7	1602.8	1489.3	1394.3
7449.8	50°	6926.4	5840.1	2519.9	1625.9	1614.3	1725.5	1674.6	1537.9	1408.2	1286.6
7994.1	52.5°	7347.9	6050.9	2138.9	1463.8	1555.3	1718.6	1644.5	1493.9	1335.2	1207.9
8506.0	55°	7705.8	6159.7	1771.8	1324.8	1469.6	1659.5	1608.6	1441.8	1232.2	1096.7
8856.9	57.5°	7909.6	6071.7	1466.1	1188.2	1351.5	1562.2	1547.2	1330.6	1109.4	1005.2
8925.2	60°	7821.6	5715.0	1216.0	1068.9	1239.1	1456.8	1440.6	1220.6	1015.6	917.2
8559.2	62.5°	7336.3	5035.3	1017.9	964.7	1137.2	1349.1	1334.1	1136.1	943.8	848.9
7587.6	65°	6358.9	4096.1	863.9	877.8	1034.2	1219.4	1241.4	1065.4	887.1	794.4
5870.2	67.5°	4850.0	2967.0	743.5	802.5	933.4	1092.1	1155.7	1014.5	839.6	751.6
3396.6	70°	2764.3	1685.0	641.6	729.6	844.2	973.9	1089.7	973.9	788.6	715.7
1272.7	72.5°	1048.0	773.6	554.7	656.6	758.5	874.3	1016.8	910.2	729.6	675.2
657.8	75°	559.3	471.3	466.7	570.9	660.1	777.1	925.3	847.7	685.6	713.4
455.1	77.5°	381.0	333.5	390.3	488.7	552.4	669.4	828.0	752.7	594.1	591.8
315.0	80°	264.0	236.2	317.3	393.7	427.3	562.8	722.6	646.2	484.1	451.6
194.6	82.5°	158.7	154.0	237.4	294.1	302.3	434.3	598.7	542.0	396.1	345.1
115.8	85°	86.9	91.5	151.7	172.6	176.0	303.4	469.0	419.2	304.6	255.9
41.7	87.5°	24.3	31.3	55.6	68.3	84.5	157.5	279.1	249.0	152.9	106.5
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>
2854.6
3064.2
3197.4
3235.6
3214.8
3166.1
3099.0
2985.5
2861.6
2782.8
2718.0
2646.2
2566.3
2449.3
2297.6
2105.4
1886.5
1667.6
1497.4
1383.9
1276.2
1194.0
1085.1
991.3
903.3
833.8
779.4
737.7
706.4
665.9
736.5
545.4
432.0
347.4
258.2
106.5
0.0

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