

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: P950621

Luminaire Tested: **GALN-SB5A-735-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950621
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5A-735-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22963 lumens
Efficiency: N/A
Efficacy: 162.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

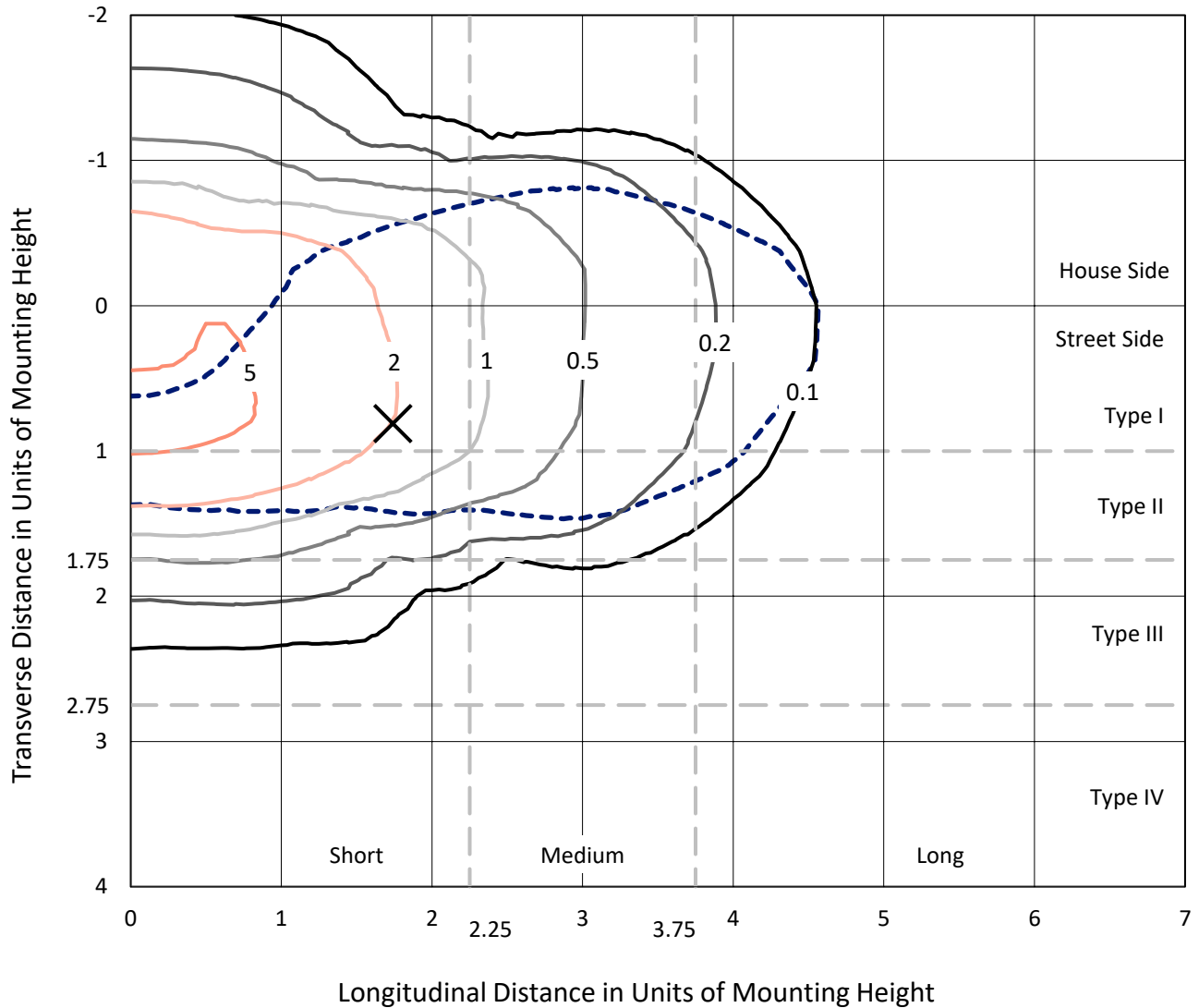
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

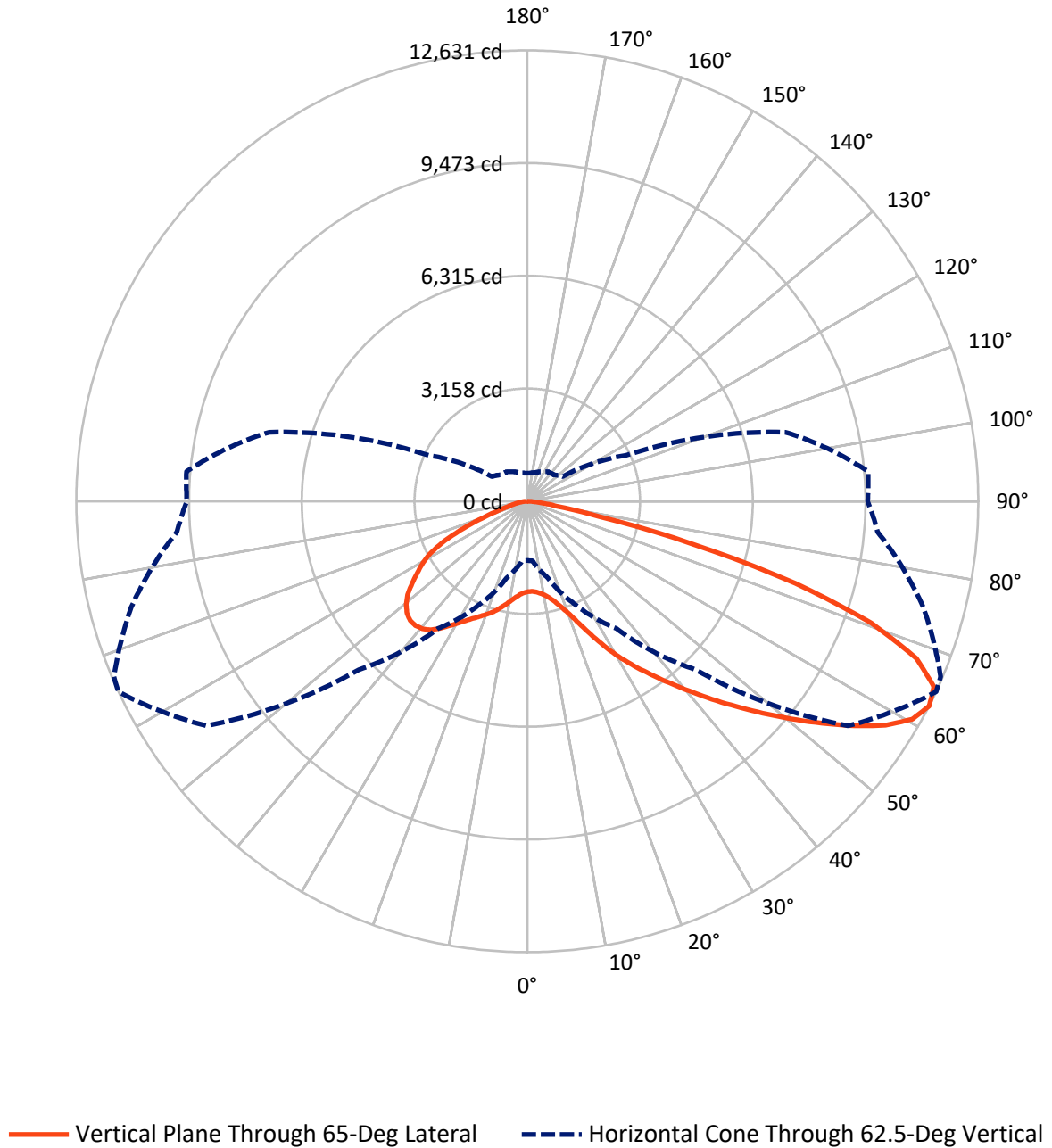
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7246.1	0.0	7246.1
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	15716.9	0.0	15716.9
	% Fixture	68.4	0.0	68.4
Total	Lumens	22963.0	0.0	22963.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.3	1.1
10°-20°	855.5	3.7
20°-30°	1734.6	7.6
30°-40°	3001.7	13.1
40°-50°	4542.6	19.8
50°-60°	5325.9	23.2
60°-70°	4465.1	19.4
70°-80°	2465.1	10.7
80°-90°	320.2	1.4
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°	22963.0	100.0
0°-180°	22963.0	100.0



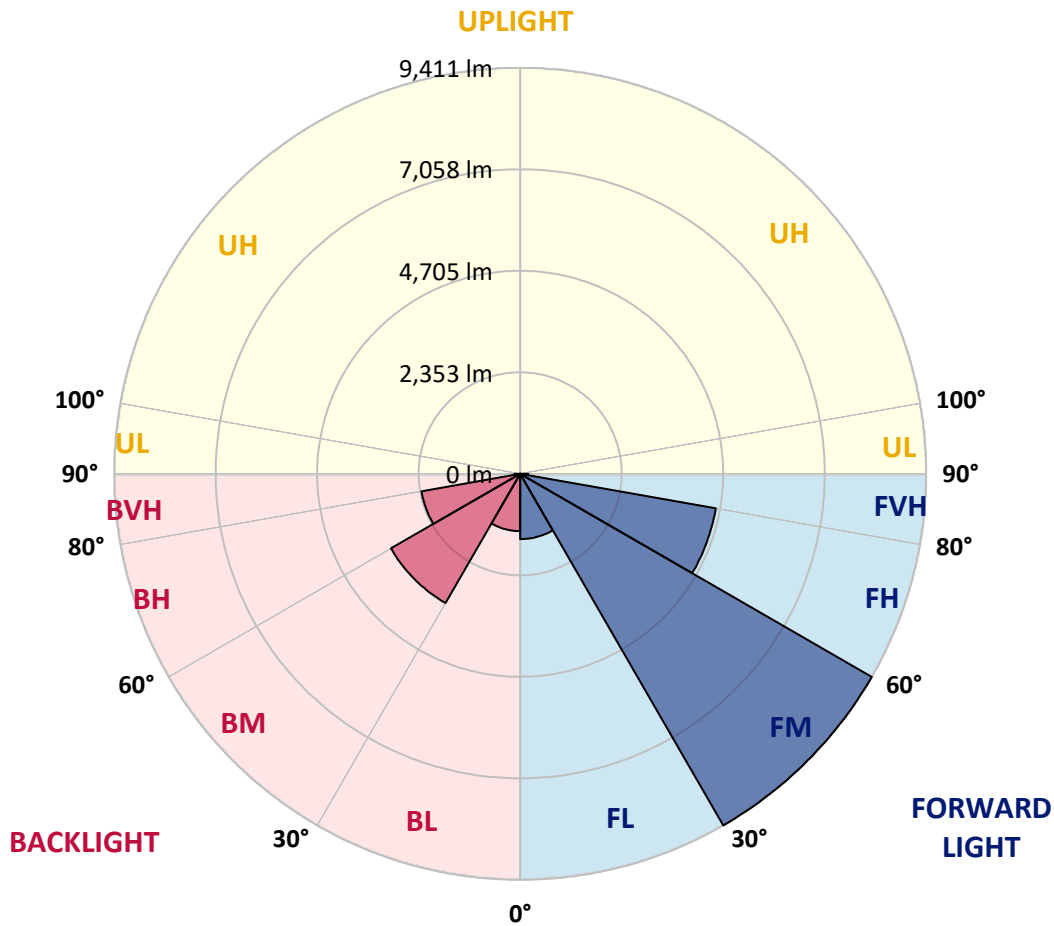
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1513.6	6.6			
FM (30°-60°)	9411.0	41.0			
FH (60°-80°)	4605.7	20.1			G2/5000
FVH (80°-90°)	186.6	0.8			G2/225
BL (0°-30°)	1328.8	5.8	B3/2500		
BM (30°-60°)	3459.2	15.1	B3/5000		
BH (60°-80°)	2324.5	10.1	B3/2500		G3/2500
BVH (80°-90°)	133.6	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	2530.4	2530.4	2530.4	2530.4	2530.4	2530.4	2530.4	2530.4	2530.4	2530.4
2.5°	2513.7	2506.6	2512.6	2512.6	2514.9	2513.7	2522.1	2524.5	2528.0	2535.2
5°	2488.7	2487.5	2498.3	2507.8	2517.3	2525.7	2536.4	2551.9	2554.2	2562.6
7.5°	2480.4	2473.2	2489.9	2501.8	2524.5	2544.7	2573.3	2599.5	2610.2	2613.8
10°	2544.7	2532.8	2548.3	2555.4	2574.5	2594.8	2628.1	2669.8	2681.7	2696.0
12.5°	2654.3	2641.2	2663.9	2674.6	2692.4	2710.3	2733.0	2773.5	2779.4	2805.6
15°	2804.4	2788.9	2803.2	2816.3	2846.1	2862.8	2885.4	2924.8	2924.8	2945.0
17.5°	3008.2	2987.9	2998.6	3003.4	3022.4	3047.5	3085.6	3120.1	3138.0	3130.9
20°	3311.9	3286.9	3286.9	3263.1	3256.0	3276.2	3326.2	3373.9	3393.0	3356.0
22.5°	3768.2	3732.5	3712.2	3631.2	3599.1	3601.4	3651.5	3709.9	3725.3	3659.8
25°	4348.4	4292.4	4265.0	4145.9	4073.2	4010.1	4049.4	4124.4	4145.9	4064.9
27.5°	4928.6	4932.2	4906.0	4763.0	4642.7	4527.1	4506.9	4585.5	4608.1	4516.4
30°	5742.3	5657.7	5607.7	5436.1	5264.6	5102.5	5019.1	5051.3	5057.3	4947.7
32.5°	6444.0	6422.6	6315.3	6165.2	5944.8	5691.1	5551.7	5500.5	5490.9	5334.9
35°	7243.4	7231.5	7118.3	6939.6	6701.3	6348.7	6097.3	5950.8	5938.9	5719.7
37.5°	8055.9	8055.9	7945.1	7749.7	7503.1	7062.3	6679.9	6447.6	6409.5	6123.5
40°	8704.0	8664.7	8684.9	8602.7	8320.4	7852.2	7326.8	6989.6	6938.4	6595.3
42.5°	9072.1	9059.0	9180.5	9272.3	9156.7	8782.6	8039.2	7577.0	7505.5	7114.7
45°	9154.3	9140.0	9356.8	9692.8	9854.8	9701.1	8813.6	8195.3	8108.3	7658.0
47.5°	8964.9	8936.3	9254.4	9784.5	10304.0	10574.4	9652.3	8866.0	8739.7	8186.9
50°	8395.4	8368.0	8849.3	9553.4	10455.3	11167.7	10562.5	9577.2	9384.2	8754.0
52.5°	7157.6	7170.7	7924.8	8892.2	10256.3	11537.0	11346.4	10326.6	10094.3	9334.2
55°	5575.5	5604.1	6531.0	7596.0	9460.5	11481.0	11881.3	11098.6	10867.5	9879.8
57.5°	3992.2	4118.5	4987.0	6041.3	7932.0	10593.5	11998.1	11832.5	11608.5	10475.5
60°	2587.6	2610.2	3503.8	4566.4	6040.1	9016.1	11761.0	12388.8	12213.7	11083.1
62.5°	1658.4	1673.8	2218.3	3194.0	4347.2	6670.4	10962.8	12630.7	12577.1	11484.6
65°	1218.7	1206.8	1490.4	2111.1	2928.3	4113.7	9412.8	12513.9	12619.9	11736.0
67.5°	1017.4	1000.7	1140.1	1461.8	2157.5	2336.2	6964.6	11755.0	12143.4	11707.4
70°	926.9	912.6	997.2	1085.3	1683.4	1564.2	3510.9	10219.4	10817.4	11382.1
72.5°	785.1	760.1	875.6	963.8	1309.3	1199.7	1451.1	7849.8	8578.9	10339.7
75°	608.8	592.1	691.0	848.2	984.1	936.4	917.3	4766.6	5562.4	7996.3
77.5°	482.5	459.9	550.4	661.2	885.2	706.5	668.3	2052.7	2841.4	5104.9
80°	363.4	343.1	418.2	523.0	680.3	532.5	432.5	837.5	1071.0	2586.4
82.5°	258.5	240.7	291.9	383.6	457.5	477.7	265.7	469.4	527.8	997.2
85°	165.6	154.9	195.4	240.7	290.7	307.4	162.0	245.4	269.2	411.0
87.5°	90.5	73.9	104.8	112.0	134.6	122.7	77.4	89.4	96.5	148.9
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°
2530.4	0°	2530.4	2530.4	2530.4	2530.4	2530.4	2530.4	2530.4	2530.4	2530.4	2530.4
2535.2	2.5°	2540.0	2543.5	2555.4	2559.0	2567.4	2578.1	2585.2	2592.4	2592.4	2599.5
2573.3	5°	2574.5	2582.8	2607.9	2621.0	2642.4	2663.9	2677.0	2692.4	2702.0	2706.7
2634.1	7.5°	2641.2	2654.3	2690.1	2712.7	2749.6	2779.4	2799.7	2821.1	2825.9	2839.0
2718.7	10°	2731.8	2747.2	2787.8	2830.6	2874.7	2911.7	2930.7	2946.2	2952.2	2954.5
2827.1	12.5°	2835.4	2858.0	2910.5	2962.9	3009.3	3041.5	3046.3	3042.7	3026.0	3011.7
2960.5	15°	2962.9	2983.1	3041.5	3098.7	3144.0	3149.9	3120.1	3101.1	3080.8	3077.3
3109.4	17.5°	3115.4	3126.1	3179.7	3235.7	3239.3	3219.0	3174.9	3157.1	3138.0	3124.9
3303.6	20°	3292.9	3289.3	3327.4	3351.3	3326.2	3264.3	3197.6	3167.8	3148.7	3133.2
3541.9	22.5°	3504.9	3477.5	3472.8	3466.8	3400.1	3270.3	3179.7	3141.6	3111.8	3090.4
3874.3	25°	3813.5	3708.7	3636.0	3595.5	3445.4	3238.1	3122.5	3037.9	2981.9	2945.0
4280.5	27.5°	4199.5	4023.2	3839.7	3740.8	3445.4	3172.6	2984.3	2847.3	2755.6	2717.5
4673.7	30°	4567.6	4383.0	4112.5	3916.0	3437.0	3065.3	2761.5	2570.9	2463.7	2425.6
5009.6	32.5°	4882.1	4680.8	4402.0	4107.8	3416.8	2891.4	2485.2	2274.3	2170.6	2125.4
5342.0	35°	5174.0	4959.6	4692.7	4318.6	3363.2	2636.5	2181.4	2020.5	1905.0	1832.3
5680.3	37.5°	5473.1	5218.1	4967.9	4509.3	3266.7	2338.6	1947.9	1810.8	1675.0	1577.3
6040.1	40°	5798.3	5493.3	5262.2	4622.4	3108.2	2055.1	1766.8	1641.7	1497.5	1393.9
6454.7	42.5°	6178.3	5823.3	5589.8	4680.8	2891.4	1853.7	1648.8	1526.1	1390.3	1305.7
6899.1	45°	6575.0	6186.7	5888.8	4679.6	2649.6	1759.6	1610.7	1489.2	1339.1	1250.9
7355.4	47.5°	6990.8	6566.7	6147.4	4603.4	2439.9	1772.7	1589.3	1409.4	1243.8	1158.0
7816.4	50°	7407.8	6982.5	6397.5	4460.4	2350.5	1744.1	1509.4	1297.4	1102.0	1024.6
8248.9	52.5°	7821.2	7424.5	6613.2	4256.7	2260.0	1638.1	1407.0	1152.0	1043.6	990.0
8695.6	55°	8237.0	7861.7	6847.9	3960.0	2033.6	1514.2	1235.4	1097.2	997.2	948.3
9132.9	57.5°	8654.0	8366.8	7070.7	3663.4	1748.9	1361.7	1141.3	1030.5	950.7	909.0
9498.6	60°	9087.6	8944.6	7300.6	3390.6	1467.7	1166.3	1072.2	976.9	895.9	849.4
9850.1	62.5°	9534.4	9580.8	7480.5	3039.1	1209.2	1047.2	1010.3	912.6	833.9	789.9
10140.8	65°	9984.7	10194.4	7598.4	2551.9	980.5	934.0	943.5	842.3	762.5	724.3
10354.0	67.5°	10324.2	10636.4	7565.1	1931.2	804.2	826.8	860.2	768.4	693.4	663.6
10319.5	70°	10362.3	10583.9	7236.2	1322.4	673.1	722.0	767.2	695.7	618.3	596.9
9833.4	72.5°	9854.8	9869.1	6320.1	863.7	569.5	633.8	669.5	621.9	546.8	525.4
8602.7	75°	8524.1	8161.9	4640.3	569.5	476.5	544.4	577.8	544.4	471.8	476.5
6436.9	77.5°	6458.3	5780.4	2817.5	405.1	397.9	457.5	502.7	478.9	417.0	468.2
3236.9	80°	3327.4	3127.3	1256.9	302.6	314.5	365.7	413.4	382.4	330.0	314.5
723.1	82.5°	762.5	886.4	495.6	216.8	227.5	263.3	315.7	287.1	237.1	200.1
301.4	85°	266.9	291.9	219.2	135.8	133.4	164.4	214.4	191.8	160.8	128.7
127.5	87.5°	84.6	110.8	82.2	54.8	57.2	73.9	98.9	90.5	75.1	48.8
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>
2530.4
2599.5
2709.1
2834.2
2948.6
3011.7
3077.3
3126.1
3134.4
3097.5
2959.3
2736.5
2448.2
2148.0
1856.1
1603.6
1414.1
1322.4
1265.2
1169.9
1029.3
990.0
943.5
901.9
845.9
788.7
723.1
664.8
598.1
524.2
459.9
412.2
287.1
197.8
135.8
51.2
0.0

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