

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: P941681

Luminaire Tested: **GALN-SB5B-830-U-SL4-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941681
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5B-830-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17842 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

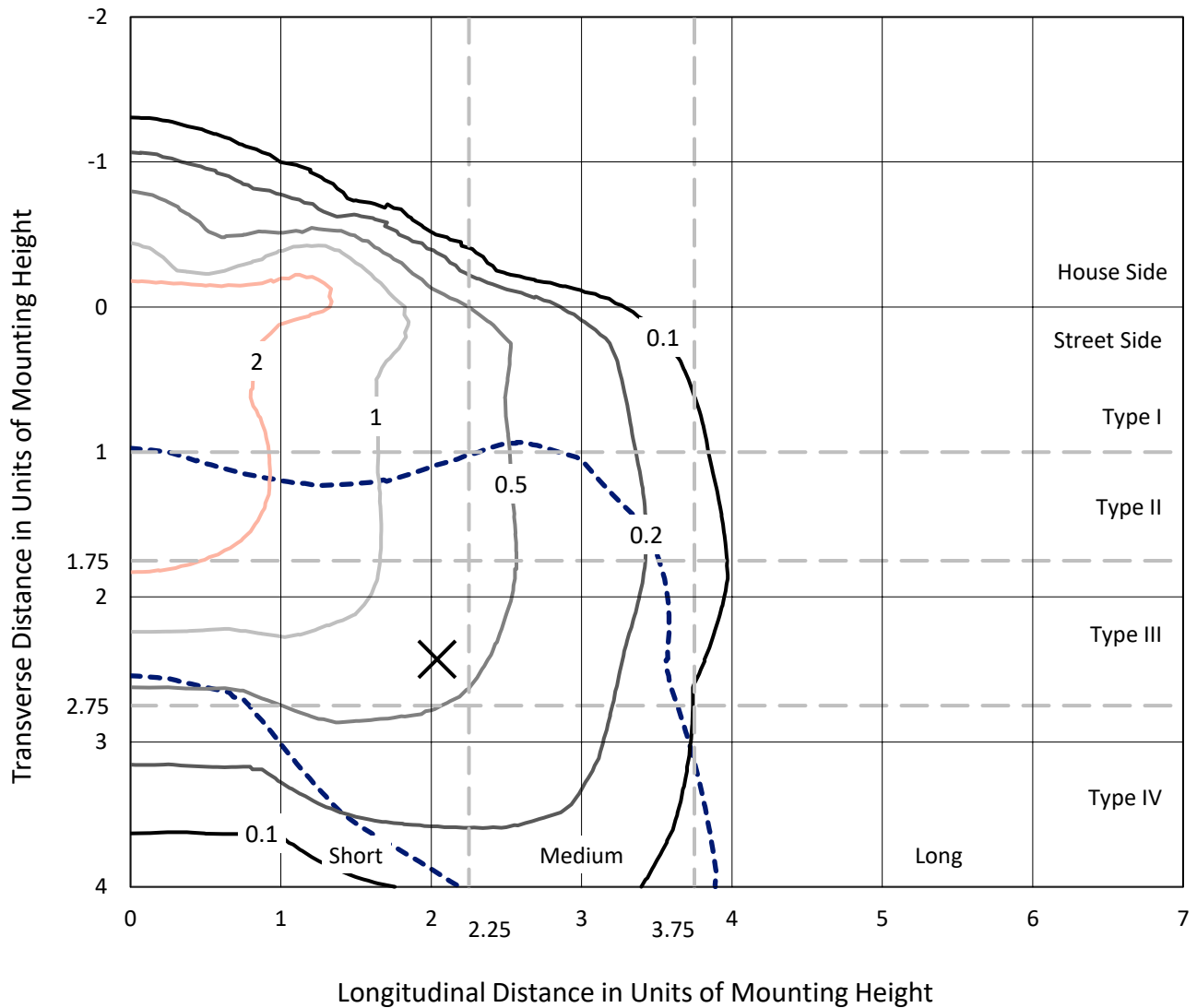
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P941681
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Iso-Footcandle Lines of Horizontal Illumination

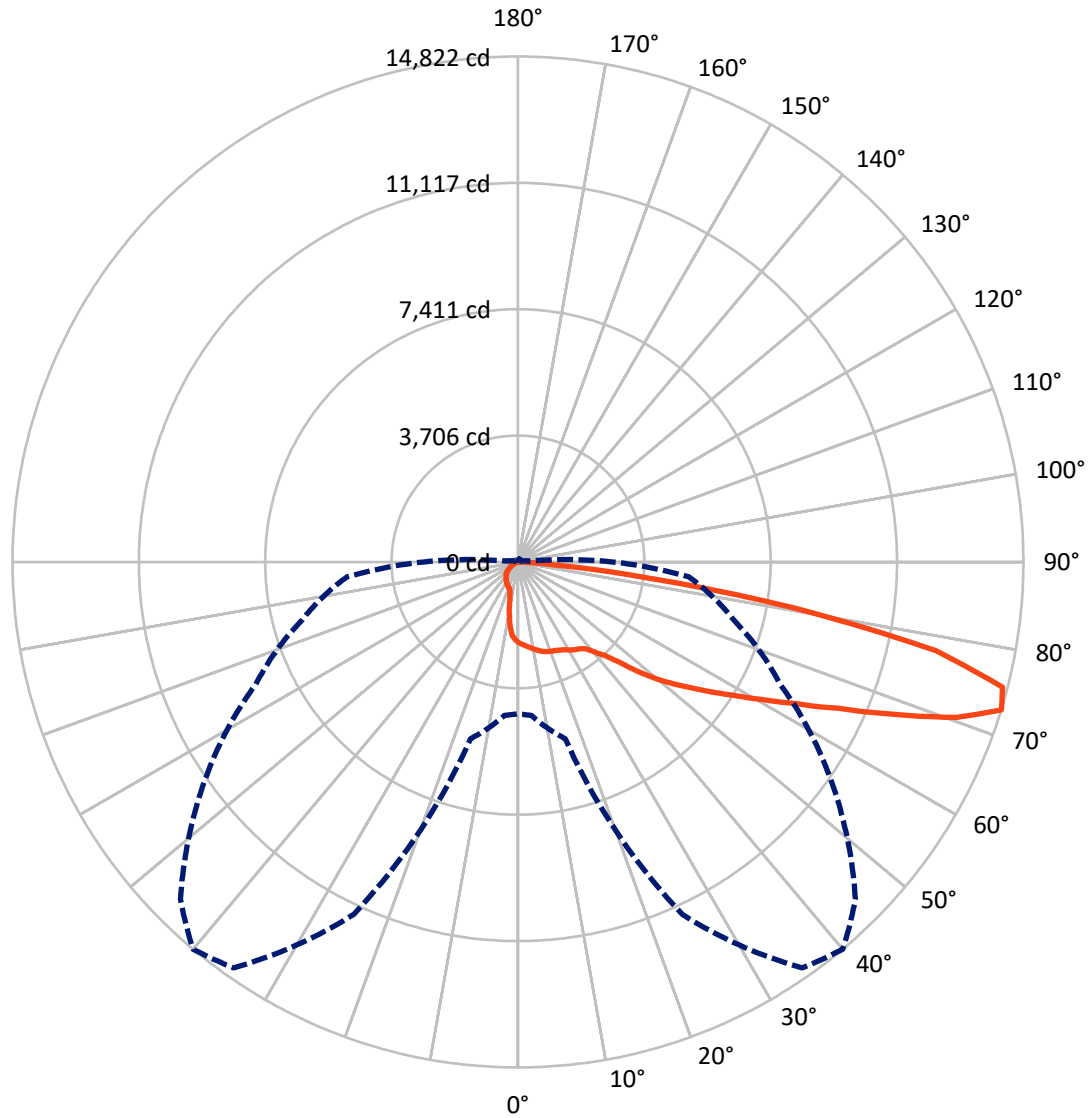
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P941681
CATALOG NUMBER: GALN-SB5B-830-U-SL4-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2304.1	0.0	2304.1
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	15537.9	0.0	15537.9
	% Fixture	87.1	0.0	87.1
Total	Lumens	17842.0	0.0	17842.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.8	1.2
10°-20°	585.9	3.3
20°-30°	948.1	5.3
30°-40°	1399.7	7.8
40°-50°	2355.7	13.2
50°-60°	3657.7	20.5
60°-70°	4576.8	25.7
70°-80°	3747.1	21.0
80°-90°	355.3	2.0
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°	17842.0	100.0
0°-180°	17842.0	100.0

Coefficient of Utilization



REPORT NUMBER: P941681

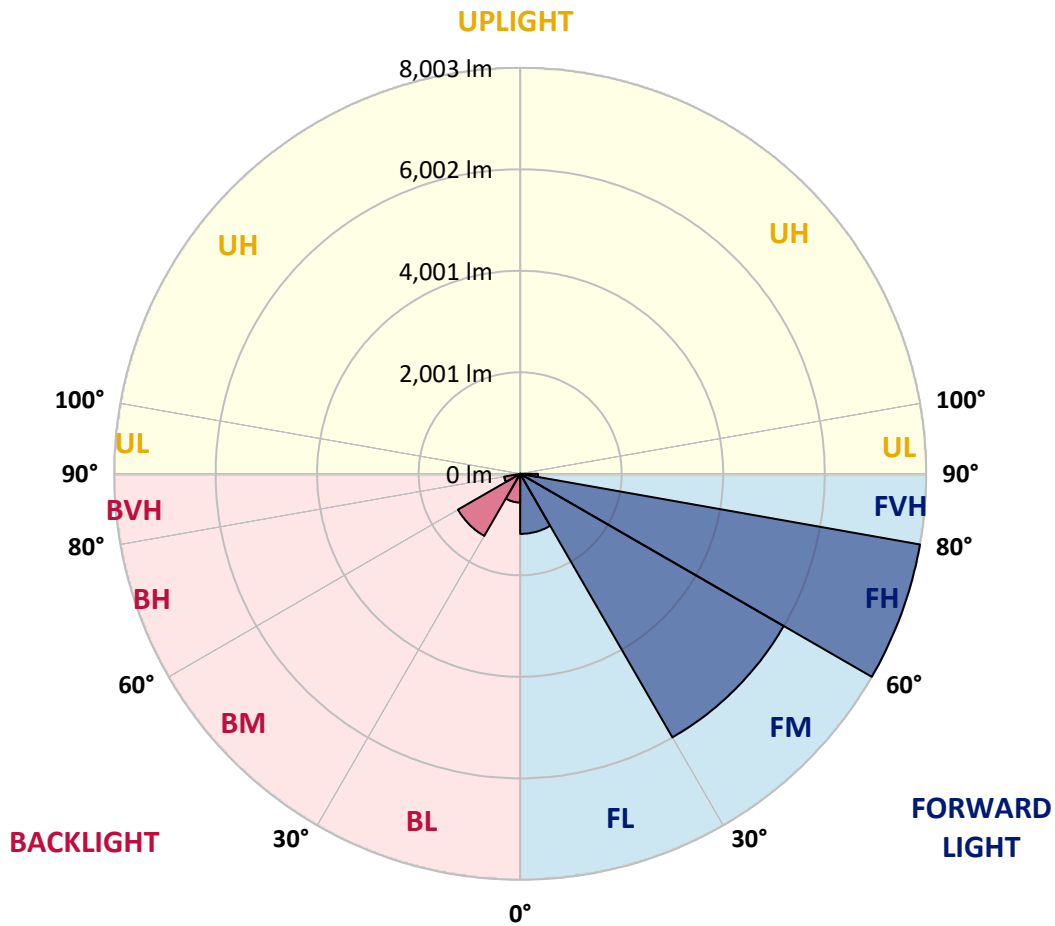
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1184.2	6.6			
FM (30°-60°)	5998.2	33.6			
FH (60°-80°)	8002.9	44.9			G4/12000
FVH (80°-90°)	352.6	2.0			G3/500
BL (0°-30°)	565.5	3.2	B2/1000		
BM (30°-60°)	1414.9	7.9	B2/2500		
BH (60°-80°)	321.0	1.8	B1/500		G1/500
BVH (80°-90°)	2.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short



REPORT NUMBER: P941681
 CATALOG NUMBER: GALN-SB5B-830-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	2362.4	2362.4	2362.4	2362.4	2362.4	2362.4	2362.4	2362.4	2362.4	2362.4
2.5°	2433.6	2443.1	2437.7	2426.9	2424.2	2418.9	2412.1	2409.5	2400.1	2392.0
5°	2502.2	2511.6	2504.9	2490.1	2483.4	2476.6	2467.2	2459.2	2440.4	2422.9
7.5°	2577.4	2585.5	2577.4	2555.9	2545.2	2537.1	2523.7	2511.6	2490.1	2464.6
10°	2660.8	2667.5	2655.4	2627.2	2609.7	2597.6	2585.5	2572.1	2551.9	2523.7
12.5°	2738.7	2746.8	2727.9	2694.3	2674.2	2662.1	2648.7	2637.9	2617.8	2590.9
15°	2809.9	2822.0	2789.8	2753.5	2730.6	2721.2	2707.8	2701.1	2687.6	2668.8
17.5°	2863.7	2871.7	2838.1	2795.1	2769.6	2762.9	2753.5	2757.5	2754.8	2745.4
20°	2909.4	2914.7	2870.4	2818.0	2789.8	2791.1	2788.4	2801.9	2807.2	2807.2
22.5°	2965.8	2967.1	2910.7	2844.9	2811.3	2820.7	2824.7	2839.5	2850.2	2861.0
25°	3039.7	3037.0	2969.8	2879.8	2850.2	2863.7	2873.1	2878.5	2890.5	2908.0
27.5°	3149.9	3141.8	3055.8	2936.2	2901.3	2913.4	2930.9	2928.2	2922.8	2936.2
30°	3289.7	3278.9	3164.7	3015.5	2983.3	2994.0	2999.4	2975.2	2936.2	2948.3
32.5°	3511.4	3492.6	3334.0	3104.2	3054.5	3066.6	3059.9	3010.1	2952.4	2964.5
35°	3897.1	3851.4	3627.0	3289.7	3135.1	3121.7	3105.6	3057.2	2986.0	2973.9
37.5°	4716.8	4636.2	4253.2	3651.1	3317.9	3230.5	3180.8	3132.4	3022.2	2973.9
40°	5641.3	5559.4	5117.2	4255.9	3621.6	3473.8	3355.5	3221.1	3059.9	2991.3
42.5°	6606.2	6516.2	6061.9	5005.7	4055.6	3751.9	3531.5	3292.3	3121.7	3045.1
45°	7683.9	7571.0	6977.1	5787.8	4685.9	4214.2	3815.1	3438.8	3229.2	3140.5
47.5°	8820.8	8674.3	7889.5	6547.1	5364.5	4853.9	4333.8	3700.9	3387.8	3282.9
50°	9828.7	9683.5	8831.5	7341.3	5998.8	5462.6	4925.1	4063.7	3625.6	3484.5
52.5°	10553.0	10442.8	9688.9	8161.0	6658.6	6033.7	5461.3	4485.7	3926.6	3742.5
55°	11038.1	10937.3	10296.3	8937.7	7425.9	6662.6	5989.4	4943.9	4289.5	4051.6
57.5°	11332.4	11274.6	10735.7	9631.1	8186.5	7350.7	6594.1	5447.8	4716.8	4415.8
60°	11437.2	11390.2	11008.5	10292.3	9105.7	8177.1	7305.0	6016.3	5235.5	4829.7
62.5°	11157.7	11167.1	11204.7	11075.7	10074.6	9144.7	8157.0	6698.9	5810.7	5298.7
65°	9842.1	9920.0	10634.9	11943.8	11357.9	10356.8	9241.4	7532.1	6469.1	5832.2
67.5°	8148.9	8261.8	9151.4	12451.8	12725.9	11930.4	10751.9	8593.7	7253.9	6375.1
70°	6238.0	6358.9	7436.7	12345.6	14006.6	13650.5	12619.8	9944.2	8066.9	6751.3
72.5°	4452.1	4513.9	5363.2	11400.9	14532.0	14822.3	13995.8	11223.5	8482.2	6543.0
75°	3128.4	3117.6	3680.7	9180.9	13713.6	14679.8	13513.4	10531.5	7675.9	5197.9
77.5°	1362.6	1365.3	1838.3	5575.5	10945.4	12537.8	11232.9	6596.8	5351.1	2754.8
80°	353.4	364.2	674.6	2220.0	6590.1	8275.2	6850.8	2900.0	2472.6	671.9
82.5°	125.0	133.0	310.4	697.4	2431.0	3794.9	3050.5	927.2	645.0	192.2
85°	36.3	43.0	166.6	213.7	502.6	1072.4	740.4	180.1	158.6	99.4
87.5°	0.0	5.4	33.6	29.6	29.6	20.2	37.6	20.2	25.5	12.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P941681
 CATALOG NUMBER: GALN-SB5B-830-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2362.4	0°	2362.4	2362.4	2362.4	2362.4	2362.4	2362.4	2362.4	2362.4	2362.4	2362.4
2382.6	2.5°	2374.5	2365.1	2345.0	2323.5	2303.3	2284.5	2279.1	2259.0	2249.5	2250.9
2401.4	5°	2386.6	2369.1	2330.2	2283.1	2234.8	2179.7	2134.0	2069.5	2014.4	2007.7
2437.7	7.5°	2418.9	2390.6	2327.5	2236.1	2115.2	1963.3	1822.2	1682.5	1603.2	1560.2
2491.4	10°	2468.6	2431.0	2334.2	2159.5	1902.8	1631.4	1417.7	1241.7	1151.6	1110.0
2557.3	12.5°	2527.7	2486.1	2345.0	2029.2	1628.7	1272.6	1041.5	934.0	915.1	912.4
2637.9	15°	2611.0	2565.3	2357.1	1853.1	1331.7	968.9	862.7	864.1	878.9	886.9
2725.3	17.5°	2703.8	2658.1	2339.6	1638.1	1038.8	827.8	825.1	837.2	858.7	866.8
2805.9	20°	2797.8	2754.8	2277.8	1385.5	839.9	788.8	799.6	813.0	834.5	845.3
2885.2	22.5°	2894.6	2856.9	2179.7	1116.7	757.9	760.6	774.0	787.5	811.7	823.8
2963.1	25°	2998.0	2965.8	2049.3	895.0	723.0	731.0	748.5	764.6	790.2	804.9
3029.0	27.5°	3102.9	3078.7	1901.5	747.2	690.7	700.1	720.3	741.8	767.3	784.8
3086.7	30°	3217.1	3203.7	1783.2	692.1	659.8	667.9	690.7	714.9	743.1	764.6
3144.5	32.5°	3334.0	3331.3	1725.5	732.4	631.6	637.0	657.1	681.3	716.3	743.1
3192.9	35°	3449.6	3454.9	1691.9	846.6	622.2	607.4	620.8	642.3	684.0	717.6
3248.0	37.5°	3597.4	3610.8	1690.5	970.2	645.0	577.8	587.2	602.0	638.3	677.3
3334.0	40°	3817.8	3889.0	1776.5	1076.4	685.3	551.0	553.7	556.3	575.2	607.4
3448.2	42.5°	4110.7	4319.0	2086.9	1149.0	701.5	526.8	517.4	502.6	499.9	517.4
3604.1	45°	4474.9	4839.1	2632.5	1189.3	685.3	499.9	474.4	435.4	420.6	432.7
3815.1	47.5°	4903.6	5408.9	3278.9	1198.7	658.5	466.3	420.6	369.5	357.5	361.5
4098.6	50°	5321.5	5836.2	3847.3	1120.7	614.1	423.3	361.5	318.5	310.4	311.8
4433.2	52.5°	5691.1	5982.7	4008.6	936.6	555.0	370.9	310.4	280.9	275.5	275.5
4802.8	55°	5935.6	5824.1	3574.5	716.3	481.1	317.1	266.1	251.3	248.6	247.3
5215.3	57.5°	5986.7	5308.1	2699.7	517.4	376.3	267.4	236.5	228.4	223.1	217.7
5638.6	60°	5803.9	4448.0	1718.7	361.5	282.2	228.4	209.6	204.3	193.5	182.8
6036.4	62.5°	5408.9	3359.5	951.4	251.3	227.1	194.9	185.4	178.7	158.6	141.1
6352.2	65°	4878.0	2233.4	420.6	196.2	185.4	163.9	158.6	149.2	125.0	104.8
6471.8	67.5°	4344.6	1286.0	189.5	157.2	149.2	134.4	130.3	123.6	106.2	87.3
6166.8	70°	3735.8	651.7	130.3	125.0	115.6	102.1	106.2	104.8	87.3	71.2
5029.9	72.5°	2781.7	323.9	98.1	94.1	83.3	72.6	87.3	86.0	68.5	53.8
3101.5	75°	1575.0	159.9	71.2	65.8	49.7	53.8	69.9	65.8	47.0	34.9
1308.9	77.5°	624.9	82.0	47.0	40.3	29.6	36.3	51.1	44.3	24.2	14.8
249.9	80°	143.8	40.3	24.2	17.5	13.4	21.5	26.9	16.1	6.7	1.3
67.2	82.5°	40.3	17.5	8.1	6.7	6.7	8.1	6.7	2.7	0.0	0.0
17.5	85°	13.4	8.1	2.7	1.3	1.3	1.3	1.3	0.0	0.0	0.0
5.4	87.5°	5.4	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°
2362.4
2249.5
2003.6
1557.5
1101.9
911.1
885.6
865.4
845.3
823.8
804.9
786.1
767.3
745.8
723.0
684.0
618.2
526.8
432.7
360.1
311.8
274.1
244.6
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