

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: P942878

Luminaire Tested: **GALN-SB7A-830-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942878
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7A-830-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21704 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

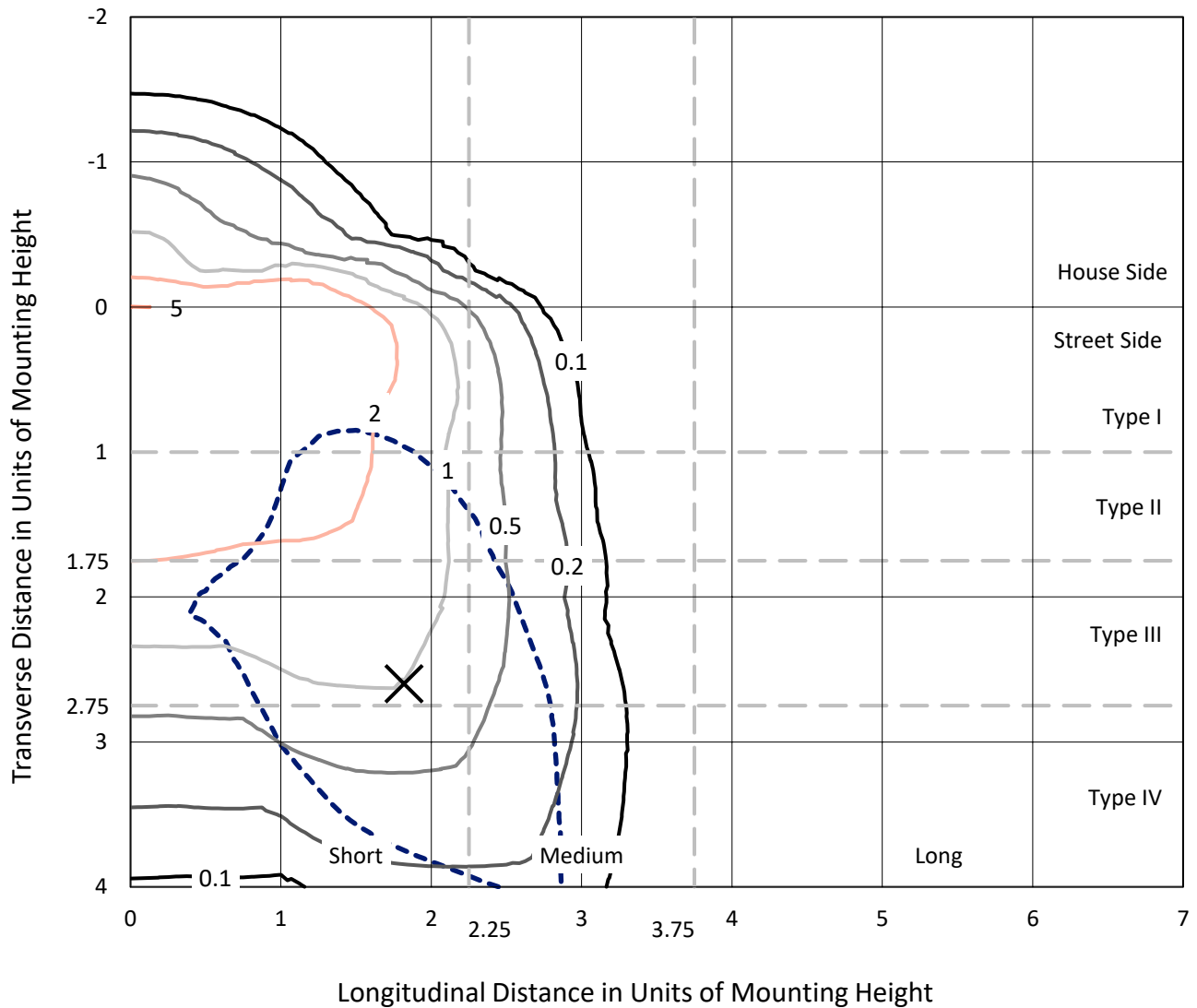
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

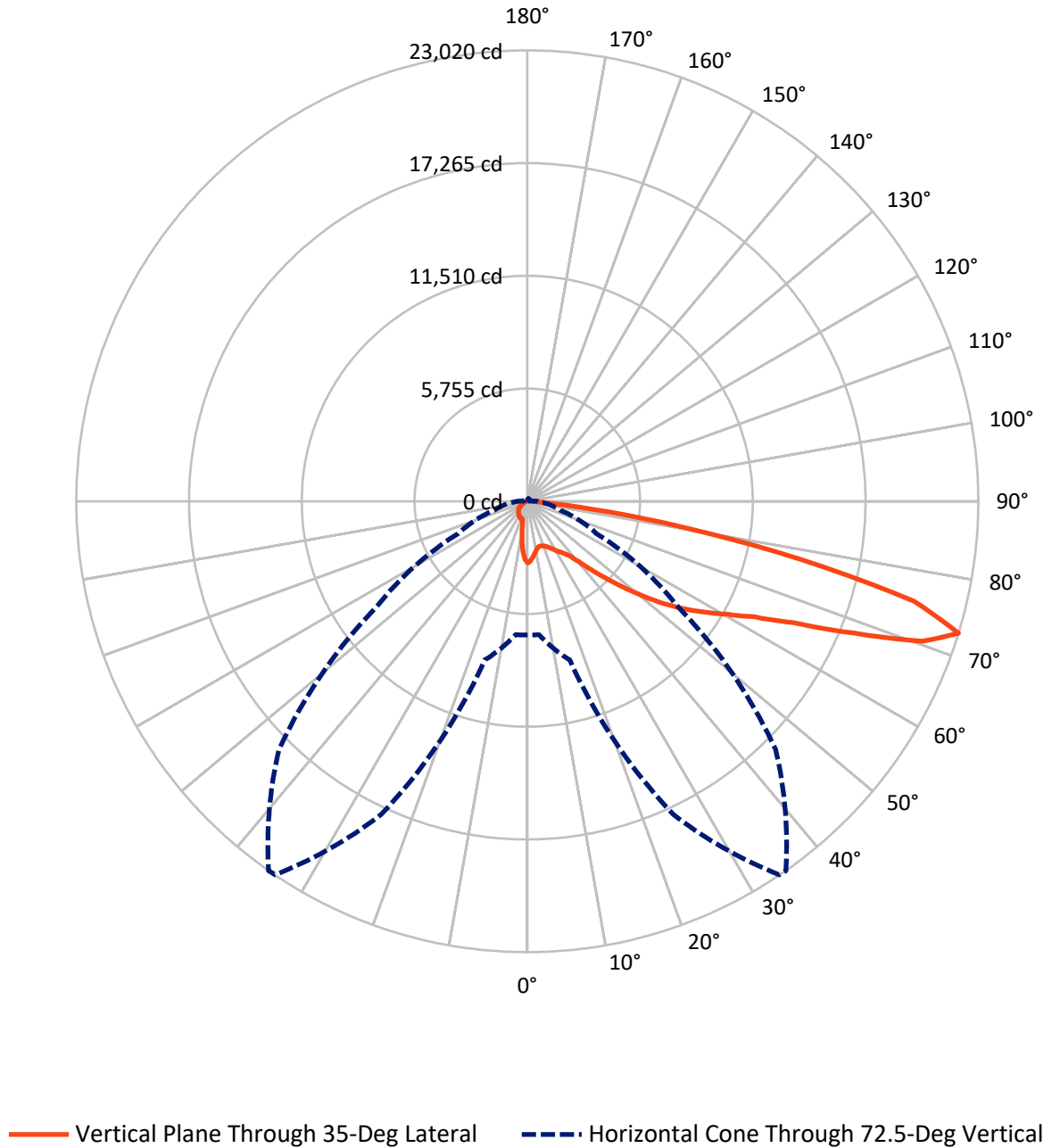
✕ Max cd
 - - - 1/2 Max cd



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	2442.7	0.0	2442.7
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	19261.3	0.0	19261.3
	% Fixture	88.7	0.0	88.7
Total	Lumens	21704.0	0.0	21704.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.5	1.2
10°-20°	604.7	2.8
20°-30°	982.3	4.5
30°-40°	1639.0	7.6
40°-50°	3101.0	14.3
50°-60°	4927.5	22.7
60°-70°	6095.7	28.1
70°-80°	3789.1	17.5
80°-90°	306.2	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°	21704.0	100.0
0°-180°	21704.0	100.0

Coefficient of Utilization



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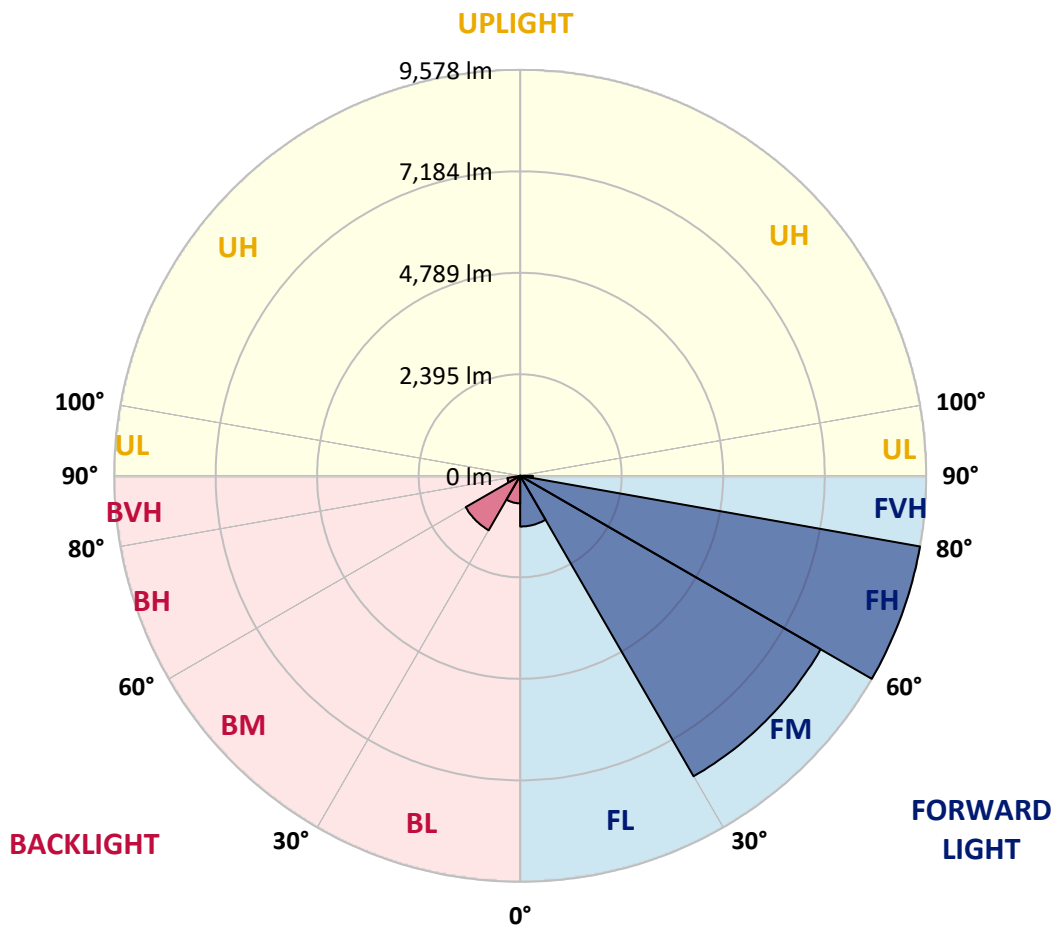
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1196.4	5.5			
FM (30°-60°)	8184.6	37.7			
FH (60°-80°)	9578.2	44.1			G4/12000
FVH (80°-90°)	302.1	1.4			G3/500
BL (0°-30°)	649.1	3.0	B2/1000		
BM (30°-60°)	1482.9	6.8	B2/2500		
BH (60°-80°)	306.5	1.4	B1/500		G1/500
BVH (80°-90°)	4.2	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	3145.6	3145.6	3145.6	3145.6	3145.6	3145.6	3145.6	3145.6	3145.6	3145.6
2.5°	3005.7	3031.1	3035.9	3043.9	3043.9	3053.4	3069.3	3091.6	3128.1	3147.2
5°	2770.3	2789.4	2813.3	2832.3	2868.9	2873.7	2935.7	2996.1	3080.4	3144.0
7.5°	2533.4	2555.6	2587.4	2633.6	2681.3	2695.6	2789.4	2891.2	3024.8	3144.0
10°	2366.4	2368.0	2396.6	2442.7	2519.1	2536.5	2651.1	2795.8	2962.8	3125.0
12.5°	2272.6	2283.7	2296.4	2331.4	2404.6	2415.7	2538.1	2708.3	2900.7	3113.8
15°	2272.6	2280.5	2288.5	2306.0	2364.8	2374.3	2482.5	2652.6	2868.9	3118.6
17.5°	2296.4	2309.1	2302.8	2323.4	2385.5	2391.8	2487.2	2636.7	2867.3	3148.8
20°	2353.7	2363.2	2350.5	2363.2	2425.2	2437.9	2536.5	2667.0	2894.4	3201.3
22.5°	2444.3	2449.1	2418.9	2428.4	2492.0	2507.9	2622.4	2752.8	2959.6	3285.6
25°	2558.8	2568.4	2522.2	2533.4	2593.8	2612.9	2744.9	2881.6	3062.9	3401.7
27.5°	2690.8	2695.6	2655.8	2654.2	2732.2	2759.2	2892.8	3040.7	3201.3	3548.0
30°	2841.9	2856.2	2818.0	2811.7	2910.3	2932.5	3064.5	3236.3	3404.9	3767.4
32.5°	2961.2	2972.3	2950.0	2965.9	3066.1	3083.6	3272.9	3513.0	3724.5	4079.2
35°	3132.9	3139.3	3088.4	3117.0	3231.5	3276.0	3557.5	3901.0	4126.9	4470.4
37.5°	3754.7	3754.7	3538.4	3396.9	3506.6	3546.4	3947.2	4389.3	4623.0	4995.2
40°	4615.1	4600.8	4284.3	3994.9	3980.6	4058.5	4502.2	5004.7	5263.9	5624.9
42.5°	5532.7	5510.4	5079.5	4793.2	4745.5	4772.5	5143.1	5763.3	6027.3	6393.1
45°	6346.9	6340.6	5946.2	5561.3	5475.4	5561.3	5943.0	6650.7	6839.9	7224.8
47.5°	7029.2	7029.2	6741.3	6490.1	6445.5	6496.4	7026.0	7635.1	7617.6	8110.6
50°	7814.8	7808.4	7534.9	7426.8	7472.9	7544.4	8272.8	8672.0	8422.3	8980.5
52.5°	8365.0	8403.2	8309.4	8291.9	8527.3	8651.3	9538.7	9686.6	9142.7	9805.9
55°	8800.8	8845.3	8953.5	9075.9	9529.1	9691.4	10764.8	10648.7	9745.4	10521.5
57.5°	9417.8	9354.2	9521.2	9762.9	10496.1	10691.7	11952.8	11556.8	10230.5	11102.0
60°	10166.9	10176.4	10205.0	10510.4	11461.4	11712.6	13123.3	12415.6	10542.2	11458.2
62.5°	11067.0	11081.3	11140.1	11609.3	12757.5	12994.4	14370.1	13118.5	10685.3	11358.0
65°	11005.0	11065.4	11722.2	13326.8	14727.9	14961.7	15825.2	13611.5	10469.0	10442.0
67.5°	10025.3	10123.9	11222.8	15378.3	17698.6	17959.4	17584.1	13708.5	9535.5	8120.1
70°	8740.4	8775.3	10096.9	17223.1	21138.4	21402.4	19158.5	12641.4	7235.9	4529.2
72.5°	6825.6	6833.6	8384.1	17650.9	23005.5	23019.8	17922.8	9384.4	3891.5	1739.8
75°	4875.9	4828.2	5615.4	14314.4	20239.9	20402.1	13436.5	4402.0	1486.9	822.2
77.5°	2614.5	2667.0	3177.4	8489.1	13982.0	14258.7	7331.3	1269.1	757.0	559.8
80°	807.9	852.4	1302.5	3886.7	7919.8	8086.7	2717.8	564.6	528.0	399.2
82.5°	254.4	264.0	607.5	1633.3	3287.2	3363.5	787.2	319.7	361.0	264.0
85°	73.2	74.7	270.4	609.1	812.6	828.6	221.1	124.0	206.7	163.8
87.5°	8.0	25.4	101.8	101.8	71.6	70.0	23.9	27.0	58.8	20.7
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°
3145.6	0°	3145.6	3145.6	3145.6	3145.6	3145.6	3145.6	3145.6	3145.6	3145.6	3145.6
3160.0	2.5°	3152.0	3153.6	3132.9	3097.9	3059.8	3028.0	2988.2	2956.4	2934.1	2927.8
3188.6	5°	3174.3	3163.1	3104.3	2997.7	2870.5	2760.8	2638.3	2541.3	2477.7	2450.7
3218.8	7.5°	3207.7	3175.9	3047.0	2837.1	2593.8	2377.5	2158.1	1987.9	1879.7	1825.7
3247.4	10°	3236.3	3172.7	2951.6	2604.9	2232.8	1905.2	1609.4	1404.2	1289.7	1235.7
3280.8	12.5°	3263.3	3171.1	2827.6	2329.8	1825.7	1424.9	1149.8	1048.0	1016.2	1005.1
3334.9	15°	3314.2	3175.9	2671.7	2014.9	1420.1	1076.6	976.5	974.9	981.2	978.0
3417.6	17.5°	3384.2	3180.6	2495.2	1681.0	1095.7	949.4	944.6	959.0	968.5	963.7
3521.0	20°	3474.8	3199.7	2307.5	1350.2	941.5	917.6	928.7	941.5	949.4	941.5
3659.3	22.5°	3602.1	3233.1	2102.4	1084.6	892.2	898.5	908.1	922.4	930.3	919.2
3835.8	25°	3757.9	3285.6	1900.4	943.1	868.3	876.3	890.6	906.5	916.0	904.9
4058.5	27.5°	3959.9	3369.9	1714.4	911.2	844.5	849.2	869.9	893.8	906.5	892.2
4374.9	30°	4252.5	3508.2	1553.7	925.6	830.1	819.0	847.6	881.0	895.3	882.6
4805.9	32.5°	4640.5	3703.8	1455.1	947.8	823.8	784.0	811.1	854.0	877.9	869.9
5368.9	35°	5149.4	4001.2	1417.0	973.3	819.0	747.4	766.5	812.6	854.0	861.9
6078.2	37.5°	5766.5	4414.7	1428.1	984.4	804.7	717.2	726.8	766.5	820.6	846.0
6876.5	40°	6467.8	4896.6	1491.7	973.3	788.8	691.8	693.4	723.6	771.3	809.5
7735.3	42.5°	7191.4	5459.5	1609.4	931.9	774.5	669.5	664.8	685.4	717.2	744.3
8592.5	45°	7880.0	6038.4	1725.5	874.7	757.0	647.3	636.1	644.1	650.4	661.6
9427.4	47.5°	8481.1	6445.5	1692.1	822.2	733.1	621.8	602.7	599.5	580.5	578.9
10173.2	50°	8896.2	6534.6	1502.8	769.7	698.1	593.2	563.0	543.9	510.5	494.6
10731.4	52.5°	9028.2	6183.1	1227.7	717.2	640.9	555.0	512.1	481.9	440.5	426.2
11052.7	55°	8853.3	5494.5	981.2	653.6	561.4	504.1	456.4	416.7	383.3	365.8
11087.7	57.5°	8425.5	4618.3	776.1	578.9	477.1	446.9	399.2	359.4	330.8	313.3
10699.6	60°	7716.2	3667.3	613.9	489.8	407.1	384.9	335.6	310.1	284.7	264.0
9697.7	62.5°	6639.6	2617.7	481.9	388.0	340.3	314.9	286.3	267.2	237.0	208.3
7895.9	65°	5181.2	1601.4	372.1	284.7	273.5	260.8	243.3	225.8	189.2	160.6
5151.0	67.5°	3268.1	758.6	265.6	214.7	216.3	209.9	202.0	187.7	160.6	135.2
2307.5	70°	1439.2	367.4	174.9	163.8	160.6	160.6	167.0	162.2	136.8	112.9
801.5	72.5°	489.8	197.2	130.4	124.0	116.1	114.5	139.9	135.2	109.7	87.5
399.2	75°	256.0	132.0	95.4	89.1	70.0	84.3	111.3	105.0	77.9	57.3
264.0	77.5°	167.0	93.8	65.2	57.3	39.8	55.7	82.7	73.2	46.1	28.6
173.3	80°	105.0	62.0	38.2	27.0	19.1	30.2	44.5	31.8	17.5	6.4
101.8	82.5°	55.7	31.8	14.3	9.5	8.0	9.5	11.1	8.0	3.2	0.0
52.5	85°	22.3	11.1	4.8	3.2	1.6	0.0	3.2	1.6	0.0	0.0
9.5	87.5°	8.0	1.6	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

<u>180°</u>
3145.6
2938.9
2460.2
1833.6
1237.3
1001.9
976.5
962.1
939.9
917.6
903.3
892.2
881.0
869.9
861.9
852.4
822.2
755.4
667.9
577.3
496.2
424.6
365.8
310.1
259.2
203.6
155.9
132.0
108.1
82.7
52.5
25.4
4.8
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