

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: P950540

Luminaire Tested: **GALN-SB4D-950-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950540
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4D-950-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21854 lumens
Efficiency: N/A
Efficacy: 74.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

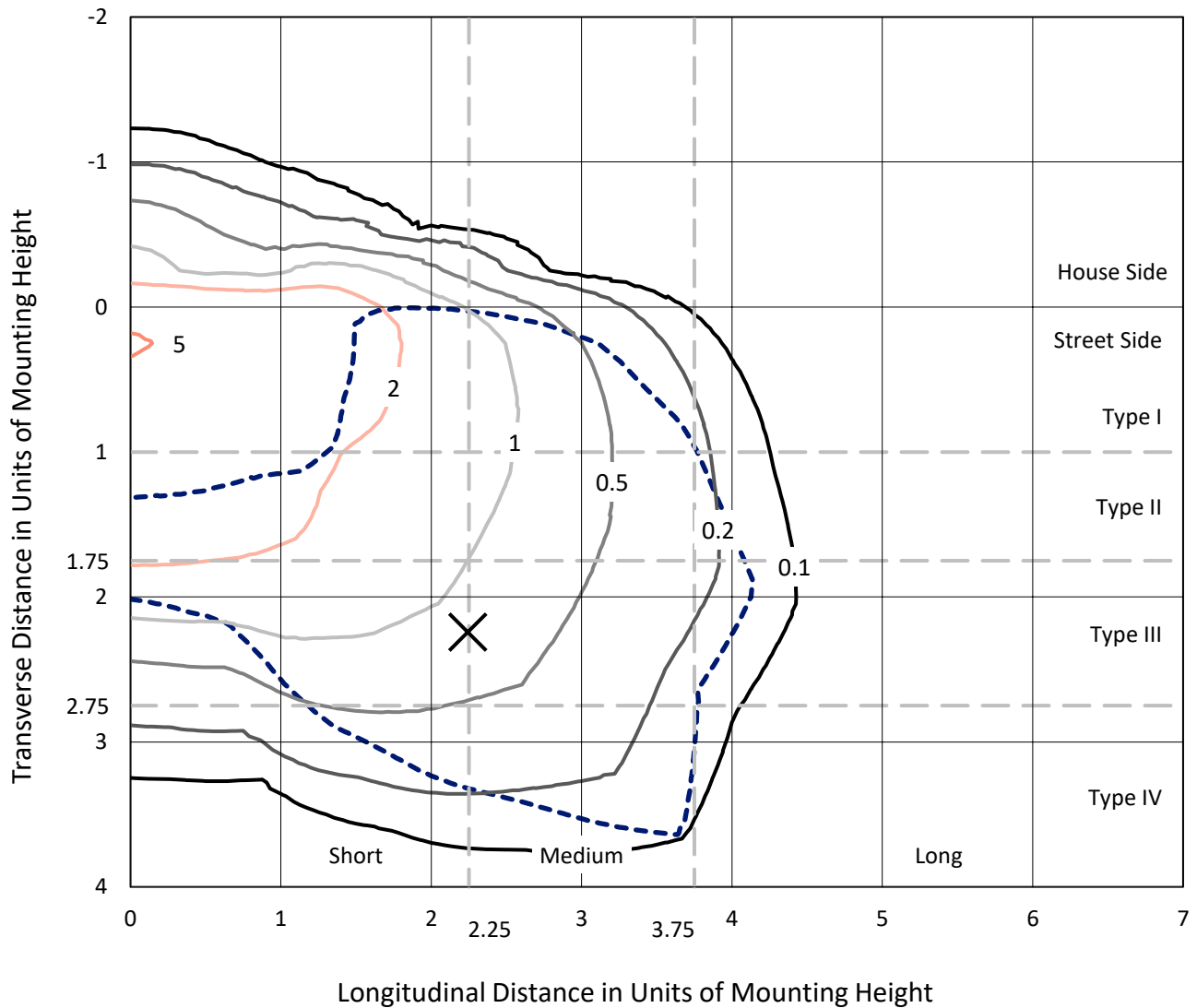
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

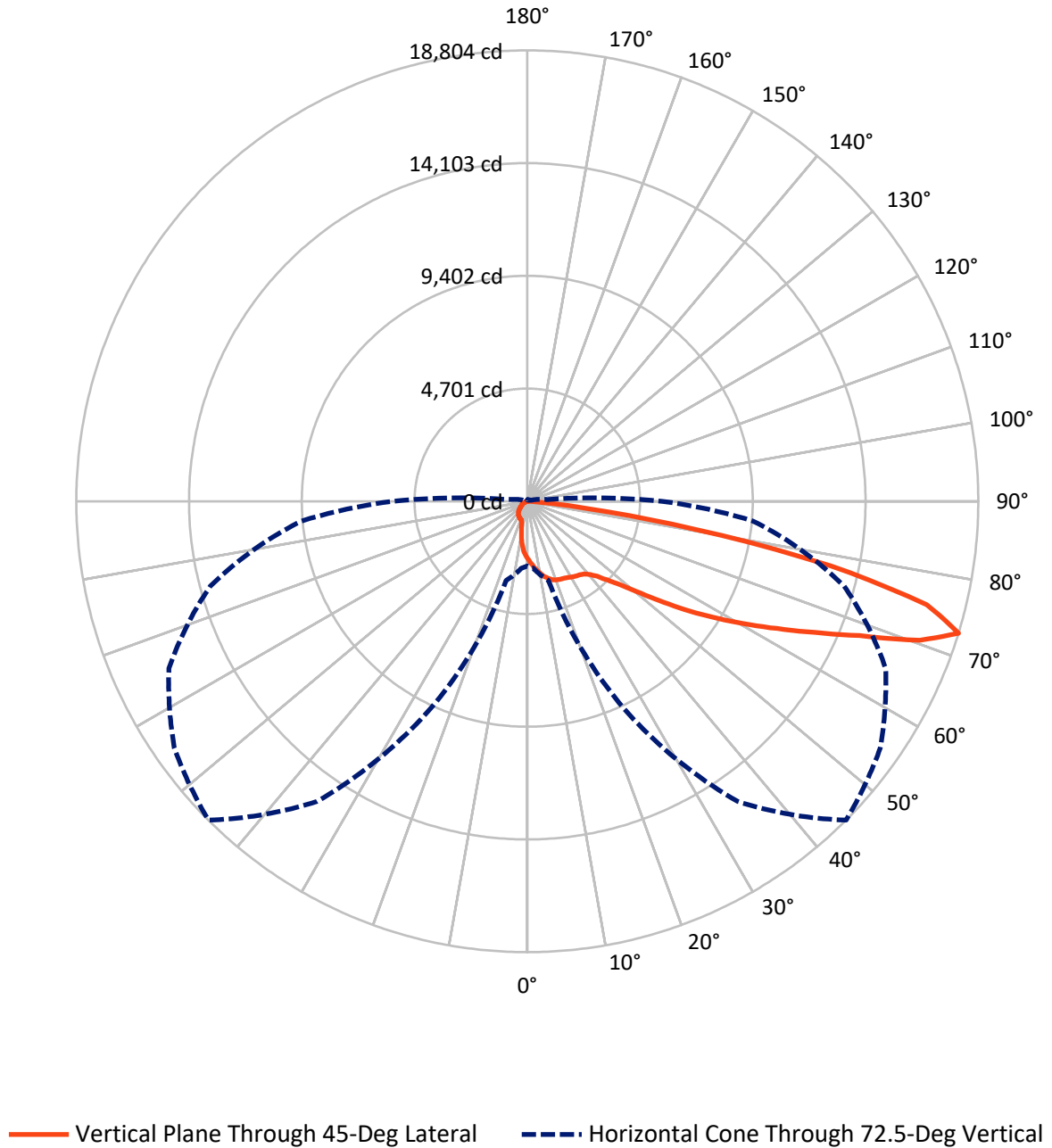
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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	2296.3	0.0	2296.3
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	19557.8	0.0	19557.8
	% Fixture	89.5	0.0	89.5
Total	Lumens	21854.0	0.0	21854.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.6	1.0
10°-20°	659.3	3.0
20°-30°	1082.6	5.0
30°-40°	1535.4	7.0
40°-50°	2537.9	11.6
50°-60°	4559.0	20.9
60°-70°	6330.4	29.0
70°-80°	4591.9	21.0
80°-90°	332.0	1.5
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°	21854.0	100.0
0°-180°	21854.0	100.0

Coefficient of Utilization



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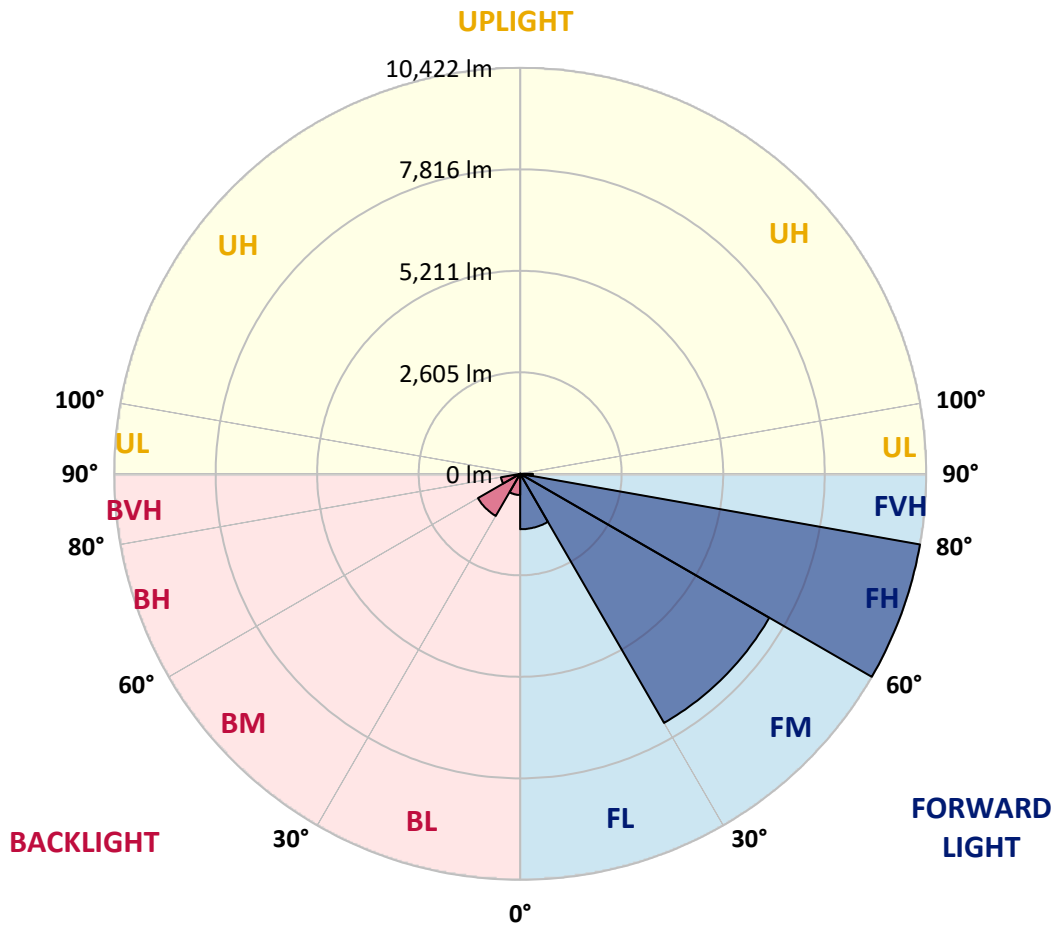
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1423.6	6.5			
FM (30°-60°)	7383.5	33.8			
FH (60°-80°)	10421.6	47.7			G4/12000
FVH (80°-90°)	329.2	1.5			G3/500
BL (0°-30°)	543.9	2.5	B2/1000		
BM (30°-60°)	1248.8	5.7	B2/2500		
BH (60°-80°)	500.7	2.3	B2/1000		G2/1000
BVH (80°-90°)	2.8	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°	35°	45°	46°	55°	65°	75°
0°	2394.2	2394.2	2394.2	2394.2	2394.2	2394.2	2394.2	2394.2	2394.2	2394.2
2.5°	2614.9	2619.4	2616.4	2598.5	2568.7	2552.3	2543.3	2513.5	2494.1	2459.8
5°	2855.1	2873.0	2862.5	2826.7	2770.1	2729.8	2717.8	2656.7	2601.5	2537.4
7.5°	3110.2	3119.1	3099.7	3053.5	2977.4	2908.8	2898.3	2813.3	2725.3	2626.9
10°	3330.9	3341.4	3311.5	3244.4	3157.9	3072.9	3058.0	2964.0	2859.6	2738.7
12.5°	3515.9	3526.3	3487.6	3407.0	3311.5	3223.5	3208.6	3110.2	2995.3	2861.0
15°	3656.1	3675.5	3623.3	3536.8	3433.9	3345.8	3338.4	3241.4	3129.6	2980.4
17.5°	3738.2	3757.6	3708.3	3603.9	3515.9	3441.3	3432.4	3351.8	3247.4	3104.2
20°	3751.6	3769.5	3717.3	3626.3	3553.2	3493.5	3489.0	3430.9	3354.8	3217.6
22.5°	3711.3	3733.7	3686.0	3612.9	3562.1	3530.8	3524.8	3492.0	3448.8	3332.4
25°	3669.5	3687.4	3651.6	3587.5	3560.6	3557.7	3562.1	3556.2	3547.2	3448.8
27.5°	3666.6	3686.0	3645.7	3584.5	3569.6	3600.9	3605.4	3633.7	3641.2	3554.7
30°	3691.9	3705.3	3666.6	3602.4	3595.0	3666.6	3668.0	3718.8	3730.7	3644.2
32.5°	3747.1	3762.0	3723.2	3629.3	3618.8	3718.8	3723.2	3790.4	3809.8	3739.7
35°	3876.9	3894.8	3850.0	3703.9	3666.6	3768.0	3781.4	3860.5	3899.3	3841.1
37.5°	4200.6	4148.4	4087.2	3854.5	3775.5	3845.6	3867.9	3960.4	4029.0	3961.9
40°	5004.6	4840.5	4649.6	4111.1	3966.4	4011.1	4029.0	4121.5	4215.5	4149.9
42.5°	6211.4	6017.5	5710.2	4701.8	4254.3	4276.7	4290.1	4370.6	4503.4	4451.2
45°	7286.9	7216.8	6903.5	5710.2	4792.8	4682.4	4698.8	4740.6	4936.0	4916.6
47.5°	8113.3	8073.0	7831.3	6867.7	5702.7	5179.1	5225.4	5244.8	5526.7	5595.3
50°	8748.7	8733.8	8517.5	7897.0	6891.6	5911.5	5928.0	5886.2	6308.3	6478.4
52.5°	9348.4	9399.1	9239.5	8853.1	8161.0	6870.7	6867.7	6670.8	7240.6	7497.2
55°	9889.9	9907.8	9924.2	9828.7	9437.9	7962.6	7934.3	7612.1	8322.1	8587.6
57.5°	10398.5	10406.0	10552.2	10747.6	10767.0	9135.1	9082.9	8696.5	9503.5	9693.0
60°	10740.1	10774.4	11083.2	11626.2	11863.4	10344.8	10316.5	9922.7	10705.8	10793.8
62.5°	10247.9	10456.7	11235.4	12312.4	12898.6	11685.8	11672.4	11302.5	11970.8	11899.2
65°	8295.3	8648.8	10018.1	12776.3	13914.4	13183.5	13202.9	12809.1	13270.0	13037.3
67.5°	5802.6	6175.6	7795.5	12813.6	15049.6	14942.2	15054.1	14436.5	14649.8	14127.7
70°	4012.6	4205.1	5259.7	12011.0	15934.2	17364.7	17361.7	16435.4	16022.2	14624.5
72.5°	2698.5	2798.4	3416.0	9528.9	15283.8	18804.2	18717.6	17962.9	16484.6	13677.2
75°	1138.2	1211.2	1581.2	5355.1	12091.6	17203.6	16969.4	15874.5	14646.8	10770.0
77.5°	361.0	392.3	623.5	1916.8	6660.4	12931.4	12683.8	9913.7	9816.8	5402.9
80°	171.5	199.9	350.5	769.7	2620.9	7033.3	6999.0	4497.4	4223.0	1458.9
82.5°	74.6	88.0	193.9	411.7	1172.5	2509.0	2559.7	1530.5	1266.4	553.4
85°	23.9	31.3	89.5	189.4	495.2	623.5	616.1	364.0	510.2	301.3
87.5°	0.0	0.0	29.8	43.3	50.7	35.8	40.3	31.3	141.7	83.5
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°
2394.2	0°	2394.2	2394.2	2394.2	2394.2	2394.2	2394.2	2394.2	2394.2	2394.2	2394.2
2424.0	2.5°	2406.1	2382.2	2340.5	2301.7	2267.4	2233.1	2212.2	2182.3	2179.3	2179.3
2462.8	5°	2422.5	2383.7	2309.1	2230.1	2139.1	2052.6	1966.0	1882.5	1855.7	1836.3
2525.4	7.5°	2470.2	2409.1	2291.2	2140.6	1967.5	1778.1	1645.3	1502.1	1446.9	1417.1
2609.0	10°	2538.8	2455.3	2276.3	2012.3	1731.8	1473.8	1284.3	1129.2	1069.5	1044.2
2699.9	12.5°	2614.9	2512.0	2249.5	1852.7	1473.8	1165.0	980.0	908.4	899.5	899.5
2808.8	15°	2705.9	2580.6	2203.2	1664.7	1203.8	921.9	856.2	859.2	868.2	874.1
2914.7	17.5°	2799.9	2653.7	2130.1	1454.4	965.1	829.4	830.9	835.3	842.8	848.8
3029.6	20°	2901.3	2726.8	2033.2	1230.6	827.9	802.5	807.0	811.5	817.4	820.4
3137.0	22.5°	3010.2	2795.4	1918.3	1011.4	781.6	780.2	781.6	786.1	793.6	793.6
3262.3	25°	3126.6	2871.5	1787.0	851.8	757.8	757.8	760.8	763.7	769.7	769.7
3383.1	27.5°	3245.9	2941.6	1648.3	768.2	736.9	735.4	735.4	739.9	742.9	744.4
3502.5	30°	3377.2	3023.6	1509.6	750.3	720.5	713.0	708.5	711.5	714.5	716.0
3627.8	32.5°	3511.4	3102.7	1385.8	757.8	704.1	690.6	675.7	672.7	672.7	678.7
3757.6	35°	3660.6	3189.2	1290.3	783.1	695.1	657.8	634.0	620.5	622.0	631.0
3912.7	37.5°	3839.6	3293.6	1220.2	805.5	689.2	620.5	581.8	565.3	554.9	565.3
4126.0	40°	4073.8	3447.3	1169.5	823.4	681.7	577.3	525.1	498.2	478.8	484.8
4457.2	42.5°	4418.4	3688.9	1150.1	824.9	665.3	526.6	466.9	431.1	402.8	404.2
4955.4	45°	4901.7	4070.8	1250.0	805.5	629.5	471.4	405.7	358.0	340.1	335.6
5699.7	47.5°	5564.0	4627.2	1481.2	765.2	577.3	417.7	346.1	305.8	292.4	284.9
6676.8	50°	6451.5	5341.7	1737.8	720.5	525.1	367.0	296.8	271.5	262.5	255.1
7835.8	52.5°	7480.8	6066.7	1948.1	675.7	472.9	322.2	265.5	250.6	243.1	237.2
8954.6	55°	8425.0	6566.4	1936.2	628.0	422.1	286.4	243.1	234.2	225.2	219.3
9918.2	57.5°	9012.8	6636.5	1596.1	575.8	364.0	258.1	222.3	216.3	205.9	198.4
10752.1	60°	9282.7	6236.7	1118.8	507.2	305.8	231.2	199.9	196.9	183.5	173.0
11541.2	62.5°	9332.0	5493.9	745.8	422.1	255.1	205.9	177.5	173.0	155.1	137.2
12182.6	65°	9132.1	4431.8	516.1	329.7	217.8	179.0	152.2	143.2	123.8	105.9
12334.7	67.5°	8499.6	3111.7	359.5	237.2	185.0	141.7	120.8	117.8	102.9	88.0
11559.1	70°	7340.6	1773.6	240.2	177.5	146.2	97.0	95.5	98.5	83.5	71.6
9443.8	72.5°	5628.1	811.5	149.2	129.8	99.9	65.6	76.1	77.6	64.1	53.7
5892.2	75°	3313.0	347.6	94.0	83.5	50.7	43.3	55.2	56.7	43.3	34.3
2154.0	77.5°	1127.7	131.3	59.7	49.2	25.4	23.9	35.8	35.8	23.9	13.4
432.6	80°	256.6	49.2	29.8	19.4	11.9	10.4	11.9	10.4	6.0	1.5
132.8	82.5°	73.1	19.4	11.9	7.5	4.5	4.5	1.5	0.0	0.0	0.0
46.2	85°	20.9	9.0	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
16.4	87.5°	9.0	1.5	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°
2394.2
2186.8
1845.2
1421.6
1044.2
899.5
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848.8
821.9
796.6
771.2
745.8
719.0
683.2
635.5
562.4
481.8
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329.7
280.4
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