

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: P956546

Luminaire Tested: **GALN-SB9A-930-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956546  
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-SB9A-930-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 90 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

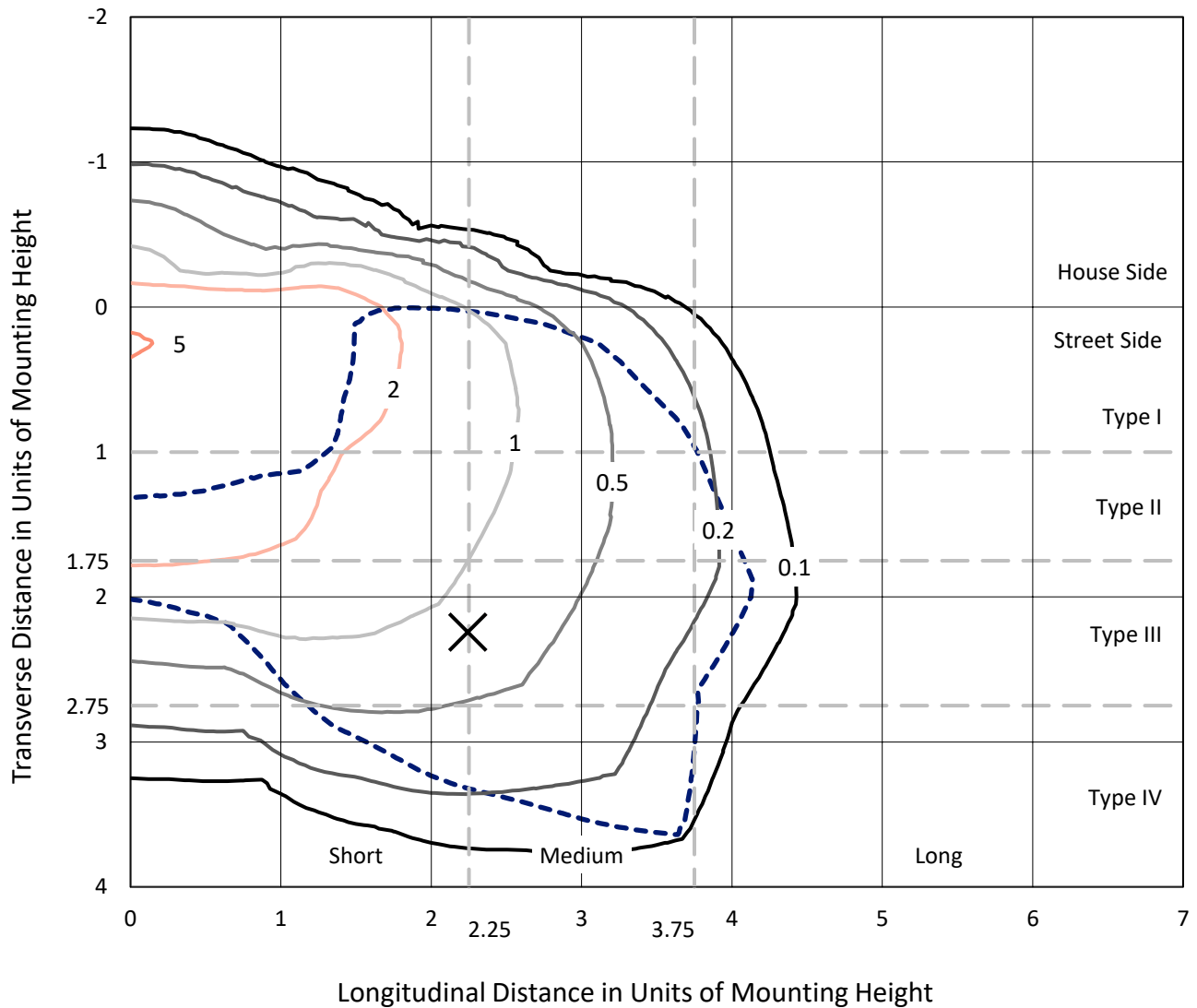
Lumens per Lamp: N/A  
Luminaire Lumens: 21894 lumens  
Efficiency: N/A  
Efficacy: 85.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 255.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

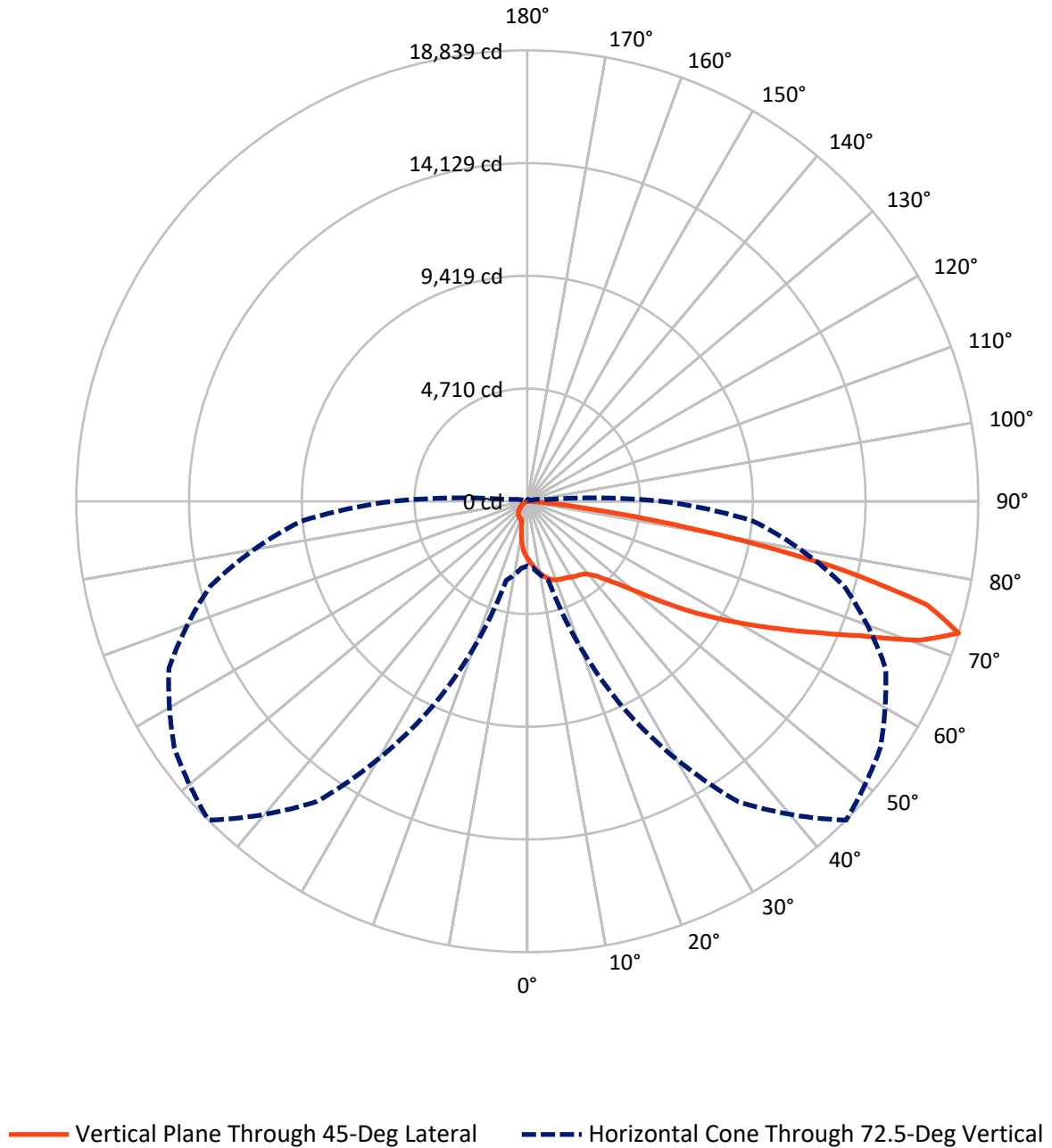
✕ Max cd  
 - - - 1/2 Max cd



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
<b>House Side</b>	Lumens	2300.4	0.0	2300.4
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	19593.6	0.0	19593.6
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	21894.0	0.0	21894.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	226.0	1.0
10°-20°	660.5	3.0
20°-30°	1084.6	5.0
30°-40°	1538.2	7.0
40°-50°	2542.5	11.6
50°-60°	4567.3	20.9
60°-70°	6342.0	29.0
70°-80°	4600.3	21.0
80°-90°	332.6	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°	21894.0	100.0
0°-180°	21894.0	100.0

**Coefficient of Utilization**



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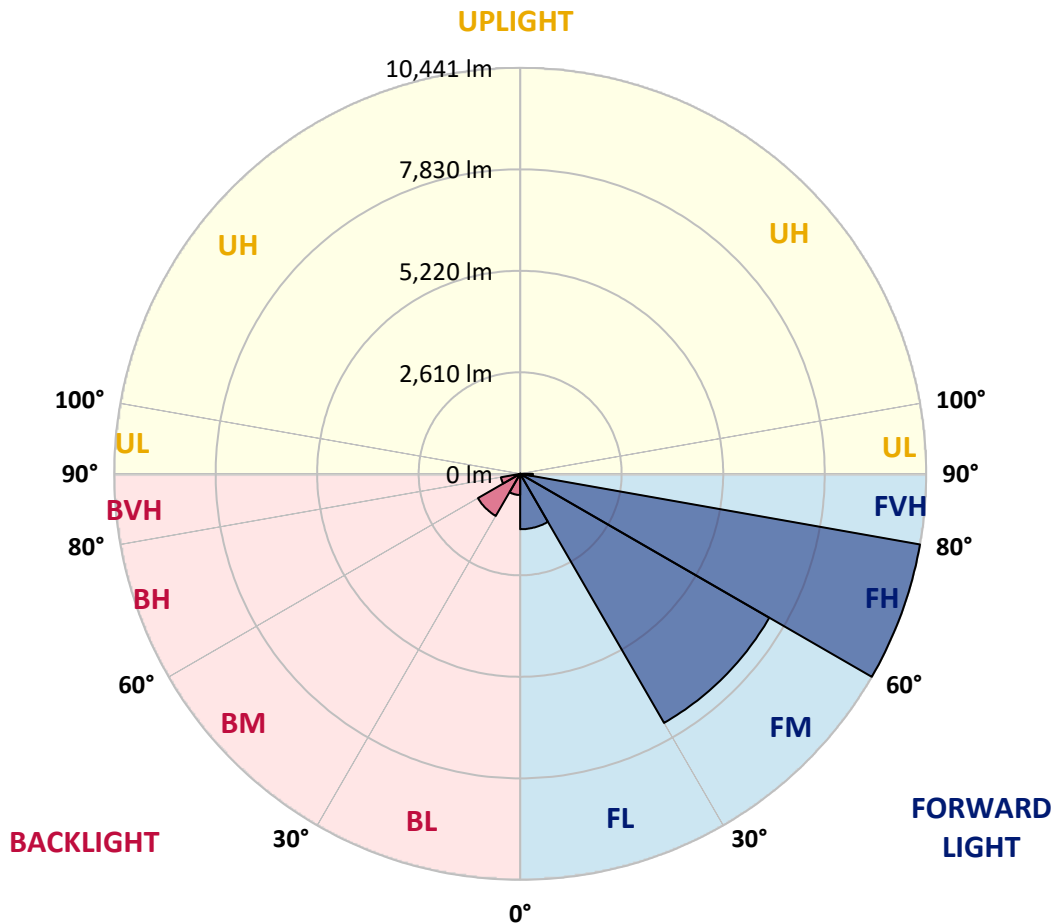
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1426.2	6.5			
FM (30°-60°)	7397.0	33.8			
FH (60°-80°)	10440.6	47.7			G4/12000
FVH (80°-90°)	329.8	1.5			G3/500
BL (0°-30°)	544.9	2.5	B2/1000		
BM (30°-60°)	1251.1	5.7	B2/2500		
BH (60°-80°)	501.7	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°	2398.5	2398.5	2398.5	2398.5	2398.5	2398.5	2398.5	2398.5	2398.5	2398.5
2.5°	2619.7	2624.2	2621.2	2603.3	2573.4	2556.9	2548.0	2518.1	2498.7	2464.3
5°	2860.3	2878.2	2867.8	2831.9	2775.1	2734.8	2722.8	2661.6	2606.3	2542.0
7.5°	3115.9	3124.8	3105.4	3059.1	2982.9	2914.1	2903.6	2818.5	2730.3	2631.7
10°	3337.0	3347.5	3317.6	3250.4	3163.7	3078.5	3063.5	2969.4	2864.8	2743.7
12.5°	3522.3	3532.8	3493.9	3413.2	3317.6	3229.4	3214.5	3115.9	3000.8	2866.3
15°	3662.8	3682.2	3629.9	3543.3	3440.1	3352.0	3344.5	3247.4	3135.3	2985.8
17.5°	3745.0	3764.4	3715.1	3610.5	3522.3	3447.6	3438.6	3357.9	3253.3	3109.9
20°	3758.5	3776.4	3724.1	3632.9	3559.7	3499.9	3495.4	3437.2	3360.9	3223.5
22.5°	3718.1	3740.5	3692.7	3619.5	3568.7	3537.3	3531.3	3498.4	3455.1	3338.5
25°	3676.3	3694.2	3658.3	3594.1	3567.2	3564.2	3568.7	3562.7	3553.7	3455.1
27.5°	3673.3	3692.7	3652.3	3591.1	3576.1	3607.5	3612.0	3640.4	3647.9	3561.2
30°	3698.7	3712.1	3673.3	3609.0	3601.5	3673.3	3674.8	3725.6	3737.5	3650.9
32.5°	3754.0	3768.9	3730.1	3635.9	3625.4	3725.6	3730.1	3797.3	3816.7	3746.5
35°	3884.0	3901.9	3857.1	3710.6	3673.3	3774.9	3788.3	3867.5	3906.4	3848.1
37.5°	4208.3	4156.0	4094.7	3861.6	3782.4	3852.6	3875.0	3967.7	4036.4	3969.2
40°	5013.8	4849.4	4658.1	4118.6	3973.6	4018.5	4036.4	4129.1	4223.2	4157.5
42.5°	6222.7	6028.5	5720.6	4710.4	4262.1	4284.5	4297.9	4378.6	4511.6	4459.3
45°	7300.2	7230.0	6916.1	5720.6	4801.6	4691.0	4707.4	4749.2	4945.0	4925.6
47.5°	8128.1	8087.8	7845.7	6880.3	5713.1	5188.6	5234.9	5254.4	5536.8	5605.5
50°	8764.7	8749.8	8533.1	7911.4	6904.2	5922.4	5938.8	5897.0	6319.9	6490.2
52.5°	9365.5	9416.3	9256.4	8869.3	8175.9	6883.3	6880.3	6683.0	7253.9	7510.9
55°	9908.0	9925.9	9942.3	9846.7	9455.2	7977.2	7948.8	7626.0	8337.3	8603.3
57.5°	10417.6	10425.0	10571.5	10767.3	10786.7	9151.8	9099.5	8712.4	9520.9	9710.7
60°	10759.8	10794.2	11103.5	11647.5	11885.1	10363.8	10335.4	9940.8	10725.4	10813.6
62.5°	10266.6	10475.8	11255.9	12334.9	12922.2	11707.2	11693.8	11323.2	11992.7	11920.9
65°	8310.4	8664.6	10036.5	12799.7	13939.9	13207.6	13227.1	12832.5	13294.3	13061.2
67.5°	5813.3	6186.9	7809.8	12837.0	15077.1	14969.5	15081.6	14462.9	14676.6	14153.6
70°	4020.0	4212.8	5269.3	12033.0	15963.3	17396.5	17393.5	16465.5	16051.5	14651.2
72.5°	2703.4	2803.5	3422.2	9546.3	15311.8	18838.6	18751.9	17995.7	16514.8	13702.3
75°	1140.2	1213.5	1584.1	5364.9	12113.7	17235.1	17000.5	15903.6	14673.6	10789.7
77.5°	361.6	393.0	624.7	1920.3	6672.6	12955.1	12707.0	9931.9	9834.7	5412.8
80°	171.9	200.3	351.2	771.1	2625.7	7046.2	7011.8	4505.7	4230.7	1461.5
82.5°	74.7	88.2	194.3	412.5	1174.6	2513.6	2564.4	1533.3	1268.8	554.4
85°	23.9	31.4	89.7	189.8	496.1	624.7	617.2	364.6	511.1	301.9
87.5°	0.0	0.0	29.9	43.3	50.8	35.9	40.3	31.4	142.0	83.7
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°
2398.5	0°	2398.5	2398.5	2398.5	2398.5	2398.5	2398.5	2398.5	2398.5	2398.5	2398.5
2428.4	2.5°	2410.5	2386.6	2344.7	2305.9	2271.5	2237.1	2216.2	2186.3	2183.3	2183.3
2467.3	5°	2426.9	2388.1	2313.4	2234.1	2143.0	2056.3	1969.6	1886.0	1859.1	1839.6
2530.0	7.5°	2474.7	2413.5	2295.4	2144.5	1971.1	1781.3	1648.3	1504.9	1449.6	1419.7
2613.7	10°	2543.5	2459.8	2280.5	2016.0	1735.0	1476.5	1286.7	1131.3	1071.5	1046.1
2704.9	12.5°	2619.7	2516.6	2253.6	1856.1	1476.5	1167.1	981.8	910.1	901.1	901.1
2814.0	15°	2710.9	2585.3	2207.2	1667.8	1206.0	923.5	857.8	860.8	869.7	875.7
2920.1	17.5°	2805.0	2658.6	2134.0	1457.1	966.9	830.9	832.4	836.9	844.3	850.3
3035.2	20°	2906.6	2731.8	2036.9	1232.9	829.4	804.0	808.5	813.0	818.9	821.9
3142.8	22.5°	3015.7	2800.5	1921.8	1013.2	783.1	781.6	783.1	787.6	795.0	795.0
3268.3	25°	3132.3	2876.7	1790.3	853.3	759.2	759.2	762.2	765.1	771.1	771.1
3389.3	27.5°	3251.8	2947.0	1651.3	769.6	738.2	736.7	736.7	741.2	744.2	745.7
3508.9	30°	3383.4	3029.2	1512.3	751.7	721.8	714.3	709.8	712.8	715.8	717.3
3634.4	32.5°	3517.9	3108.4	1388.3	759.2	705.4	691.9	677.0	674.0	674.0	680.0
3764.4	35°	3667.3	3195.1	1292.7	784.6	696.4	659.0	635.1	621.7	623.2	632.1
3919.8	37.5°	3846.6	3299.7	1222.4	807.0	690.4	621.7	582.8	566.4	555.9	566.4
4133.5	40°	4081.2	3453.6	1171.6	824.9	682.9	578.3	526.0	499.1	479.7	485.7
4465.3	42.5°	4426.5	3695.7	1152.2	826.4	666.5	527.5	467.8	431.9	403.5	405.0
4964.4	45°	4910.6	4078.3	1252.3	807.0	630.6	472.2	406.5	358.7	340.7	336.2
5710.2	47.5°	5574.2	4635.7	1484.0	766.6	578.3	418.4	346.7	306.4	292.9	285.4
6689.0	50°	6463.3	5351.5	1741.0	721.8	526.0	367.6	297.4	272.0	263.0	255.5
7850.2	52.5°	7494.5	6077.8	1951.7	677.0	473.7	322.8	266.0	251.1	243.6	237.6
8971.0	55°	8440.4	6578.4	1939.7	629.1	422.9	286.9	243.6	234.6	225.7	219.7
9936.4	57.5°	9029.2	6648.6	1599.0	576.8	364.6	258.5	222.7	216.7	206.2	198.8
10771.7	60°	9299.7	6248.1	1120.8	508.1	306.4	231.6	200.3	197.3	183.8	173.4
11562.3	62.5°	9349.1	5503.9	747.2	422.9	255.5	206.2	177.8	173.4	155.4	137.5
12204.9	65°	9148.8	4439.9	517.1	330.3	218.2	179.3	152.4	143.5	124.0	106.1
12357.3	67.5°	8515.2	3117.3	360.2	237.6	185.3	142.0	121.0	118.1	103.1	88.2
11580.2	70°	7354.0	1776.9	240.6	177.8	146.5	97.1	95.6	98.6	83.7	71.7
9461.1	72.5°	5638.4	813.0	149.4	130.0	100.1	65.8	76.2	77.7	64.3	53.8
5902.9	75°	3319.1	348.2	94.1	83.7	50.8	43.3	55.3	56.8	43.3	34.4
2157.9	77.5°	1129.8	131.5	59.8	49.3	25.4	23.9	35.9	35.9	23.9	13.4
433.4	80°	257.0	49.3	29.9	19.4	12.0	10.5	12.0	10.5	6.0	1.5
133.0	82.5°	73.2	19.4	12.0	7.5	4.5	4.5	1.5	0.0	0.0	0.0
46.3	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°
2398.5
2190.8
1848.6
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1046.1
901.1
875.7
850.3
823.4
798.0
772.6
747.2
720.3
684.4
636.6
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