

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: P944448

Luminaire Tested: **GALN-SB9B-927-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944448
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-SB9B-927-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 2700K, 450mA 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: 23638 lumens
Efficiency: N/A
Efficacy: 71.7 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

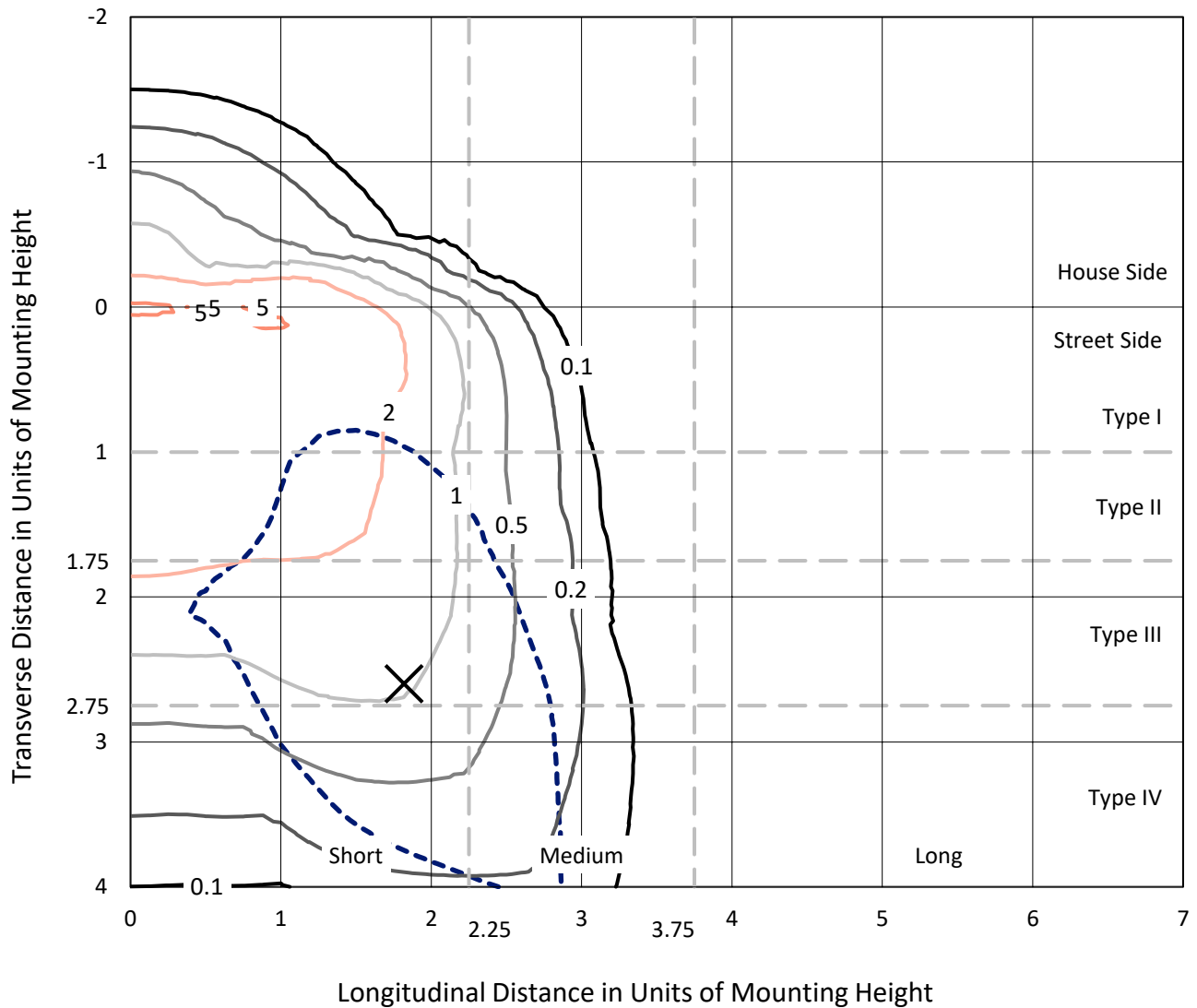
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

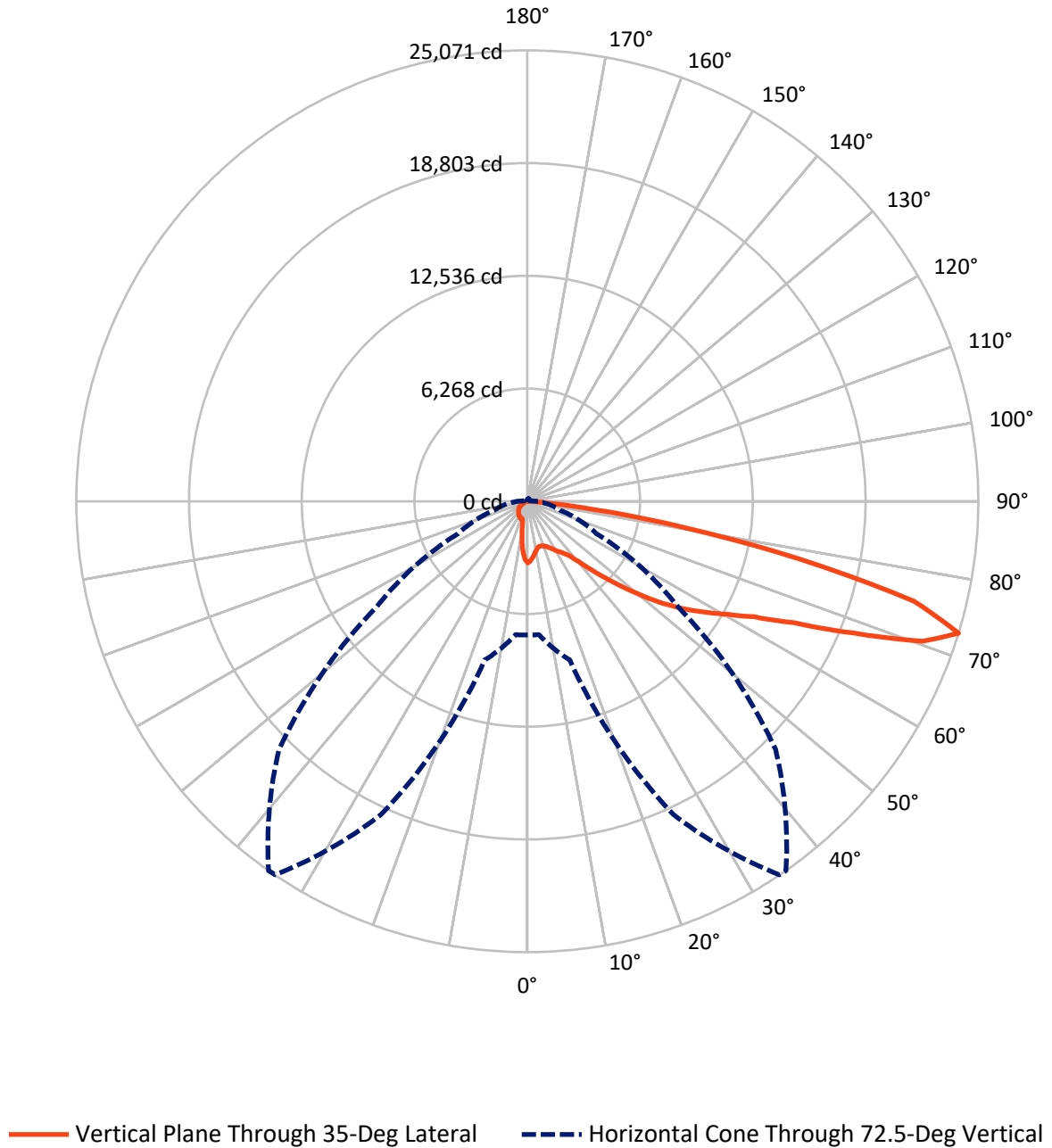
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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	2660.4	0.0	2660.4
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	20977.6	0.0	20977.6
	% Fixture	88.7	0.0	88.7
Total	Lumens	23638.0	0.0	23638.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.5	1.2
10°-20°	658.6	2.8
20°-30°	1069.9	4.5
30°-40°	1785.0	7.6
40°-50°	3377.3	14.3
50°-60°	5366.6	22.7
60°-70°	6638.8	28.1
70°-80°	4126.7	17.5
80°-90°	333.5	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°	23638.0	100.0
0°-180°	23638.0	100.0

Coefficient of Utilization



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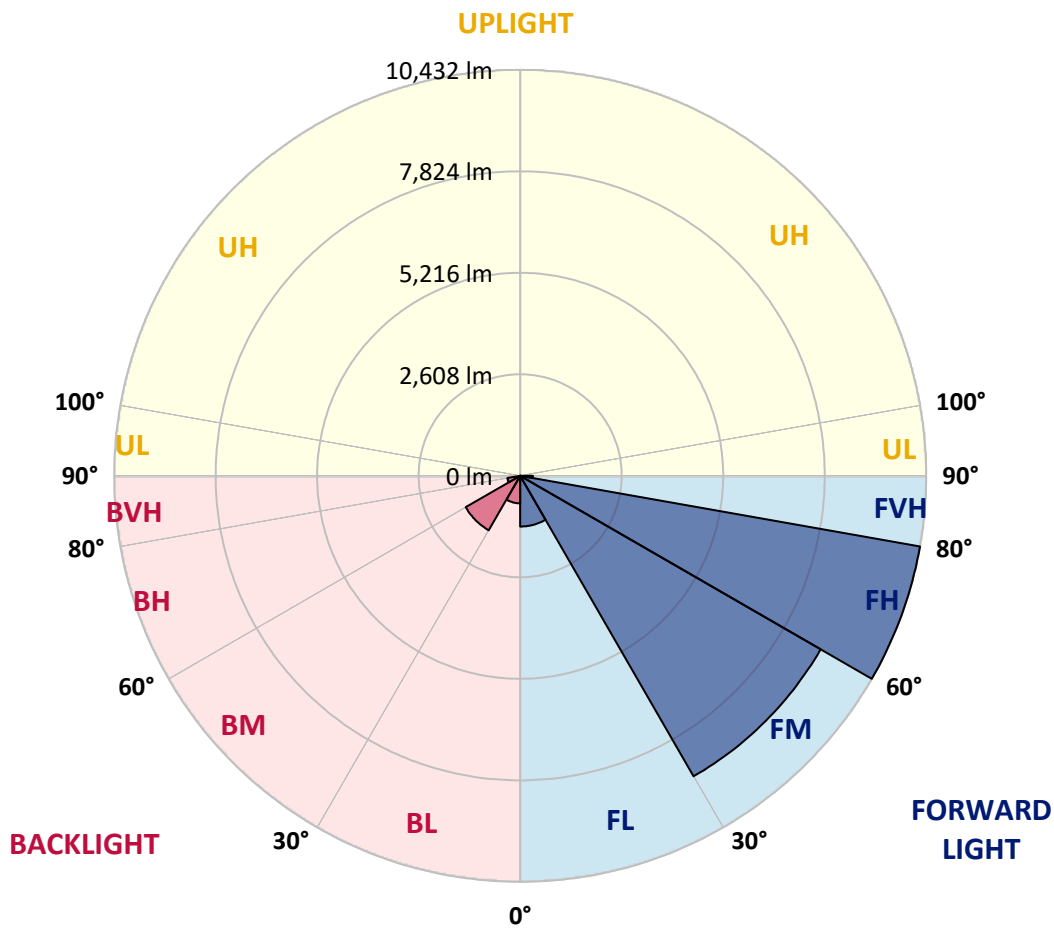
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1303.1	5.5			
FM (30°-60°)	8913.9	37.7			
FH (60°-80°)	10431.7	44.1			G4/12000
FVH (80°-90°)	329.0	1.4			G3/500
BL (0°-30°)	706.9	3.0	B2/1000		
BM (30°-60°)	1615.1	6.8	B2/2500		
BH (60°-80°)	333.8	1.4	B1/500		G1/500
BVH (80°-90°)	4.5	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°	3425.9	3425.9	3425.9	3425.9	3425.9	3425.9	3425.9	3425.9	3425.9	3425.9
2.5°	3273.5	3301.2	3306.4	3315.1	3315.1	3325.5	3342.8	3367.0	3406.9	3427.7
5°	3017.2	3038.0	3063.9	3084.7	3124.6	3129.8	3197.3	3263.1	3354.9	3424.2
7.5°	2759.1	2783.4	2818.0	2868.2	2920.2	2935.8	3038.0	3148.8	3294.3	3424.2
10°	2577.2	2579.0	2610.2	2660.4	2743.5	2762.6	2887.3	3044.9	3226.8	3403.4
12.5°	2475.1	2487.2	2501.0	2539.1	2618.8	2630.9	2764.3	2949.6	3159.2	3391.3
15°	2475.1	2483.7	2492.4	2511.4	2575.5	2585.9	2703.7	2889.0	3124.6	3396.5
17.5°	2501.0	2514.9	2508.0	2530.5	2598.0	2605.0	2708.9	2871.7	3122.8	3429.4
20°	2563.4	2573.8	2559.9	2573.8	2641.3	2655.2	2762.6	2904.6	3152.3	3486.6
22.5°	2662.1	2667.3	2634.4	2644.8	2714.1	2731.4	2856.1	2998.1	3223.3	3578.4
25°	2786.8	2797.2	2747.0	2759.1	2824.9	2845.7	2989.5	3138.4	3335.9	3704.8
27.5°	2930.6	2935.8	2892.5	2890.7	2975.6	3005.1	3150.5	3311.6	3486.6	3864.1
30°	3095.1	3110.7	3069.1	3062.2	3169.6	3193.8	3337.6	3524.7	3708.3	4103.2
32.5°	3225.0	3237.1	3212.9	3230.2	3339.3	3358.4	3564.5	3826.0	4056.4	4442.6
35°	3412.1	3419.0	3363.6	3394.8	3519.5	3568.0	3874.5	4248.6	4494.6	4868.7
37.5°	4089.3	4089.3	3853.7	3699.6	3819.1	3862.4	4298.9	4780.4	5035.0	5440.3
40°	5026.3	5010.7	4666.1	4350.8	4335.3	4420.1	4903.4	5450.7	5733.0	6126.2
42.5°	6025.7	6001.5	5532.1	5220.3	5168.4	5197.8	5601.4	6276.8	6564.4	6962.7
45°	6912.5	6905.6	6476.0	6056.9	5963.4	6056.9	6472.6	7243.3	7449.4	7868.6
47.5°	7655.5	7655.5	7342.0	7068.4	7019.9	7075.3	7652.1	8315.4	8296.4	8833.3
50°	8511.2	8504.2	8206.3	8088.5	8138.8	8216.7	9010.0	9444.7	9172.8	9780.7
52.5°	9110.4	9152.0	9049.8	9030.8	9287.1	9422.2	10388.7	10549.7	9957.4	10679.6
55°	9585.0	9633.5	9751.3	9884.6	10378.3	10554.9	11724.1	11597.6	10613.8	11459.1
57.5°	10257.0	10187.8	10369.6	10632.9	11431.3	11644.4	13017.9	12586.6	11142.1	12091.2
60°	11072.8	11083.2	11114.4	11446.9	12482.7	12756.3	14292.6	13521.9	11481.6	12479.2
62.5°	12053.1	12068.7	12132.8	12643.8	13894.3	14152.3	15650.5	14287.4	11637.5	12370.1
65°	11985.6	12051.4	12766.7	14514.3	16040.3	16294.9	17235.3	14824.4	11401.9	11372.5
67.5°	10918.7	11026.0	12222.9	16748.6	19275.7	19559.7	19151.0	14930.0	10385.2	8843.7
70°	9519.2	9557.3	10996.6	18757.8	23022.0	23309.5	20865.7	13767.8	7880.7	4932.8
72.5°	7433.8	7442.5	9131.2	19223.7	25055.4	25071.0	19519.9	10220.7	4238.3	1894.8
75°	5310.4	5258.4	6115.8	15589.9	22043.4	22220.1	14633.9	4794.2	1619.4	895.5
77.5°	2847.4	2904.6	3460.6	9245.5	15227.9	15529.3	7984.6	1382.2	824.4	609.7
80°	879.9	928.4	1418.5	4233.1	8625.5	8807.3	2960.0	614.9	575.0	434.7
82.5°	277.1	287.5	661.6	1778.8	3580.1	3663.2	857.4	348.1	393.2	287.5
85°	79.7	81.4	294.4	663.4	885.1	902.4	240.8	135.1	225.2	178.4
87.5°	8.7	27.7	110.8	110.8	77.9	76.2	26.0	29.4	64.1	22.5
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°
3425.9	0°	3425.9	3425.9	3425.9	3425.9	3425.9	3425.9	3425.9	3425.9	3425.9	3425.9
3441.5	2.5°	3432.9	3434.6	3412.1	3374.0	3332.4	3297.8	3254.5	3219.8	3195.6	3188.7
3472.7	5°	3457.1	3445.0	3380.9	3264.9	3126.3	3006.8	2873.4	2767.8	2698.5	2669.0
3505.6	7.5°	3493.5	3458.8	3318.6	3089.9	2824.9	2589.4	2350.4	2165.0	2047.2	1988.4
3536.8	10°	3524.7	3455.4	3214.6	2837.1	2431.8	2075.0	1752.8	1529.4	1404.7	1345.8
3573.2	12.5°	3554.1	3453.7	3079.5	2537.4	1988.4	1551.9	1252.3	1141.4	1106.8	1094.6
3632.0	15°	3609.5	3458.8	2909.8	2194.5	1546.7	1172.6	1063.5	1061.7	1068.7	1065.2
3722.1	17.5°	3685.7	3464.0	2717.5	1830.7	1193.4	1034.0	1028.8	1044.4	1054.8	1049.6
3834.7	20°	3784.5	3484.8	2513.2	1470.5	1025.4	999.4	1011.5	1025.4	1034.0	1025.4
3985.4	22.5°	3923.0	3521.2	2289.7	1181.2	971.7	978.6	989.0	1004.6	1013.2	1001.1
4177.6	25°	4092.8	3578.4	2069.8	1027.1	945.7	954.3	969.9	987.3	997.6	985.5
4420.1	27.5°	4312.7	3670.2	1867.1	992.4	919.7	924.9	947.4	973.4	987.3	971.7
4764.8	30°	4631.4	3820.8	1692.2	1008.0	904.1	892.0	923.2	959.5	975.1	961.3
5234.2	32.5°	5054.0	4033.9	1584.8	1032.3	897.2	853.9	883.3	930.1	956.1	947.4
5847.3	35°	5608.3	4357.8	1543.2	1060.0	892.0	814.1	834.8	885.1	930.1	938.8
6619.8	37.5°	6280.3	4808.1	1555.4	1072.1	876.4	781.1	791.5	834.8	893.7	921.4
7489.3	40°	7044.1	5332.9	1624.6	1060.0	859.1	753.4	755.2	788.1	840.0	881.6
8424.6	42.5°	7832.2	5946.0	1752.8	1015.0	843.5	729.2	724.0	746.5	781.1	810.6
9358.1	45°	8582.2	6576.5	1879.2	952.6	824.4	704.9	692.8	701.5	708.4	720.5
10267.4	47.5°	9236.9	7019.9	1842.9	895.5	798.5	677.2	656.4	653.0	632.2	630.5
11079.7	50°	9688.9	7116.9	1636.8	838.3	760.4	646.0	613.1	592.4	556.0	538.7
11687.7	52.5°	9832.7	6734.1	1337.1	781.1	698.0	604.5	557.7	524.8	479.8	464.2
12037.6	55°	9642.2	5984.1	1068.7	711.9	611.4	549.1	497.1	453.8	417.4	398.4
12075.7	57.5°	9176.3	5029.8	845.2	630.5	519.6	486.7	434.7	391.4	360.3	341.2
11653.0	60°	8403.8	3994.0	668.6	533.5	443.4	419.1	365.5	337.7	310.0	287.5
10561.9	62.5°	7231.2	2850.9	524.8	422.6	370.7	342.9	311.8	291.0	258.1	226.9
8599.5	65°	5642.9	1744.1	405.3	310.0	297.9	284.1	265.0	245.9	206.1	174.9
5610.0	67.5°	3559.3	826.2	289.2	233.8	235.6	228.6	220.0	204.4	174.9	147.2
2513.2	70°	1567.5	400.1	190.5	178.4	174.9	174.9	181.9	176.7	149.0	123.0
872.9	72.5°	533.5	214.8	142.0	135.1	126.4	124.7	152.4	147.2	119.5	95.3
434.7	75°	278.9	143.8	103.9	97.0	76.2	91.8	121.2	114.3	84.9	62.4
287.5	77.5°	181.9	102.2	71.0	62.4	43.3	60.6	90.1	79.7	50.2	31.2
188.8	80°	114.3	67.5	41.6	29.4	20.8	32.9	48.5	34.6	19.1	6.9
110.8	82.5°	60.6	34.6	15.6	10.4	8.7	10.4	12.1	8.7	3.5	0.0
57.2	85°	24.2	12.1	5.2	3.5	1.7	0.0	3.5	1.7	0.0	0.0
10.4	87.5°	8.7	1.7	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

<u>180°</u>
3425.9
3200.8
2679.4
1997.0
1347.5
1091.2
1063.5
1047.9
1023.6
999.4
983.8
971.7
959.5
947.4
938.8
928.4
895.5
822.7
727.4
628.7
540.4
462.4
398.4
337.7
282.3
221.7
169.7
143.8
117.8
90.1
57.2
27.7
5.2
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