

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: P950088

Luminaire Tested: **GALN-SB4C-927-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950088
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4C-927-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17856 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

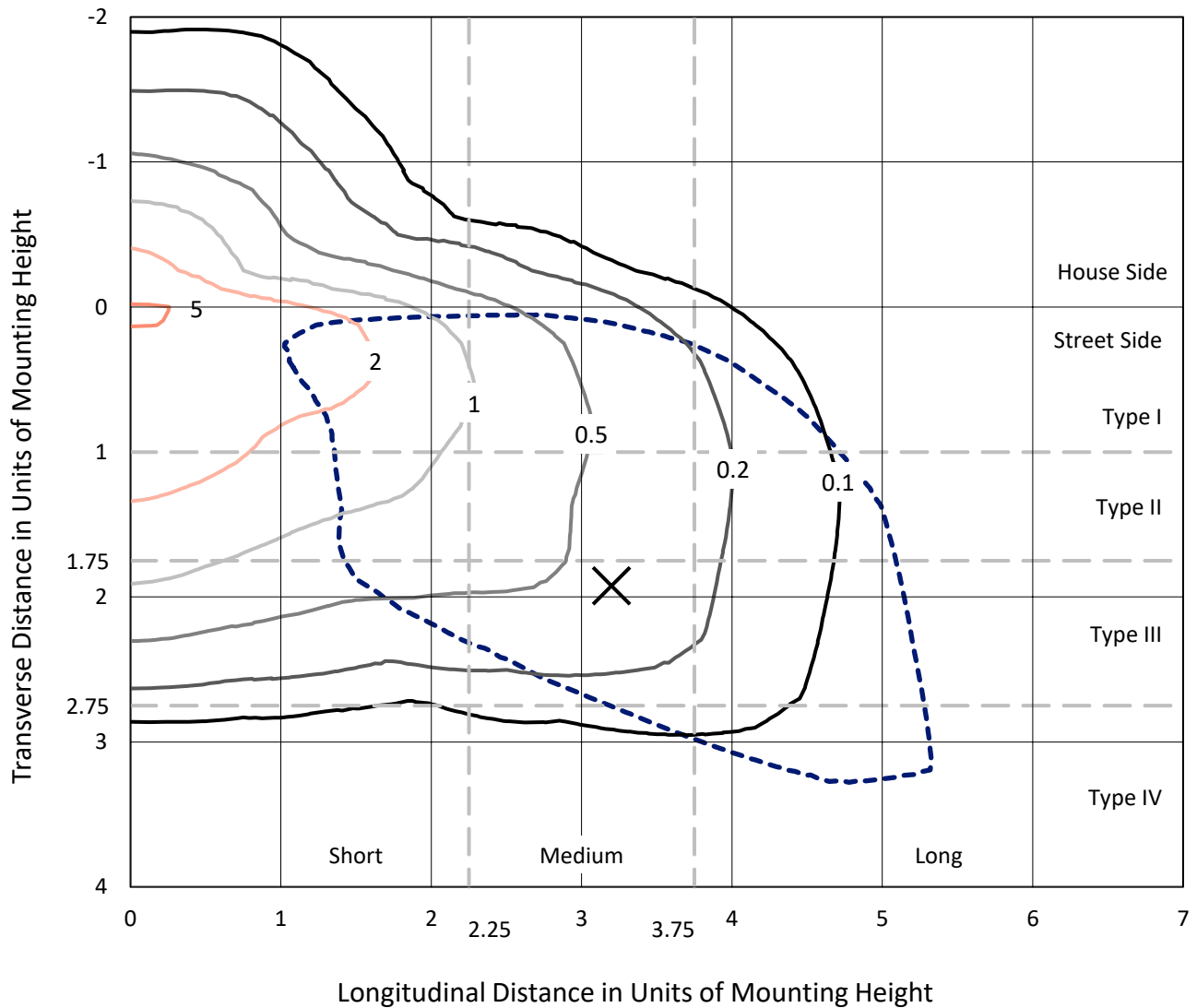
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

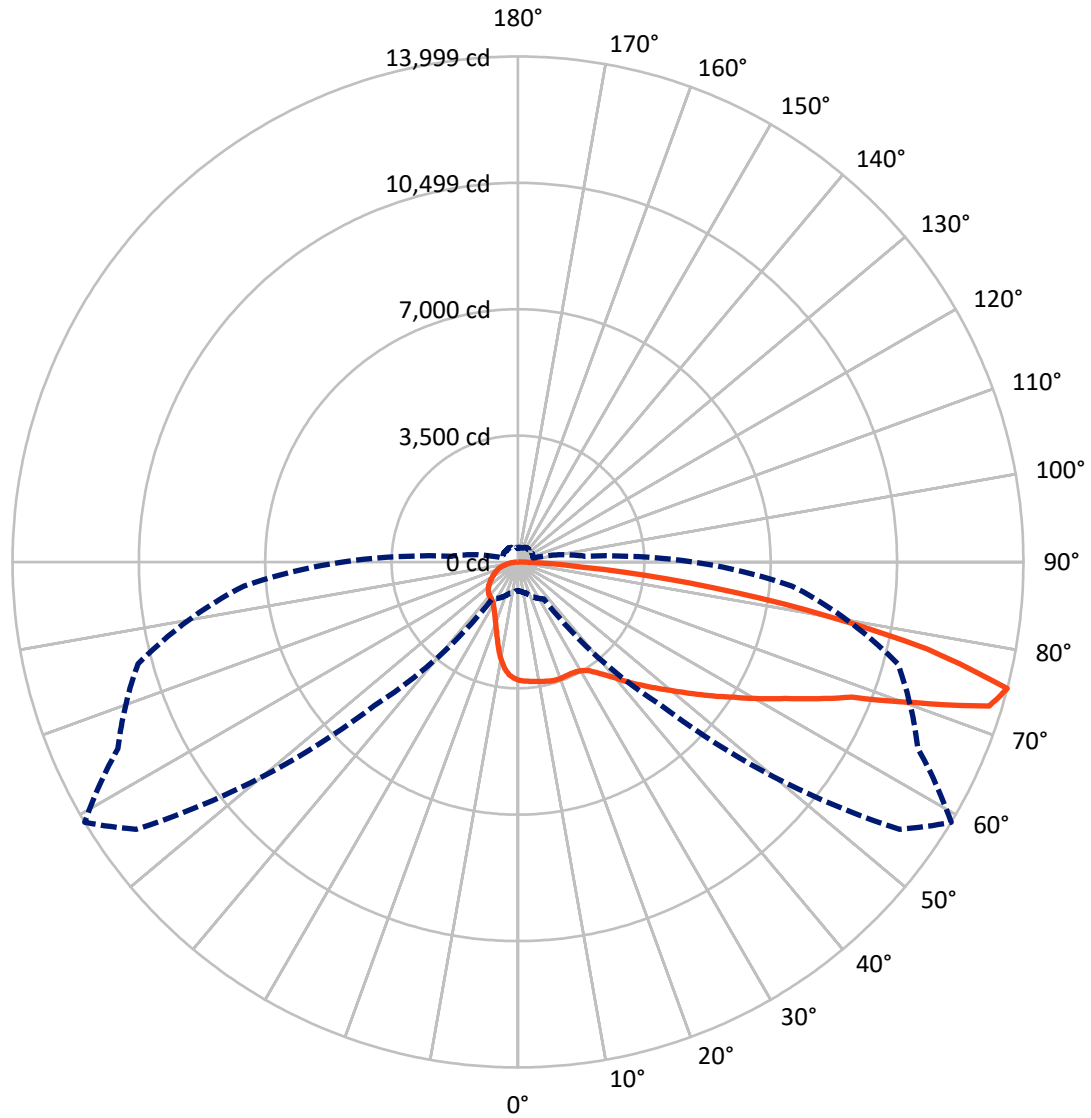
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3349.0	0.0	3349.0
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	14507.0	0.0	14507.0
	% Fixture	81.2	0.0	81.2
Total	Lumens	17856.0	0.0	17856.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.9	1.6
10°-20°	751.2	4.2
20°-30°	1141.0	6.4
30°-40°	1696.0	9.5
40°-50°	2522.2	14.1
50°-60°	3423.7	19.2
60°-70°	4179.7	23.4
70°-80°	3280.2	18.4
80°-90°	568.2	3.2
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°	17856.0	100.0
0°-180°	17856.0	100.0

Coefficient of Utilization



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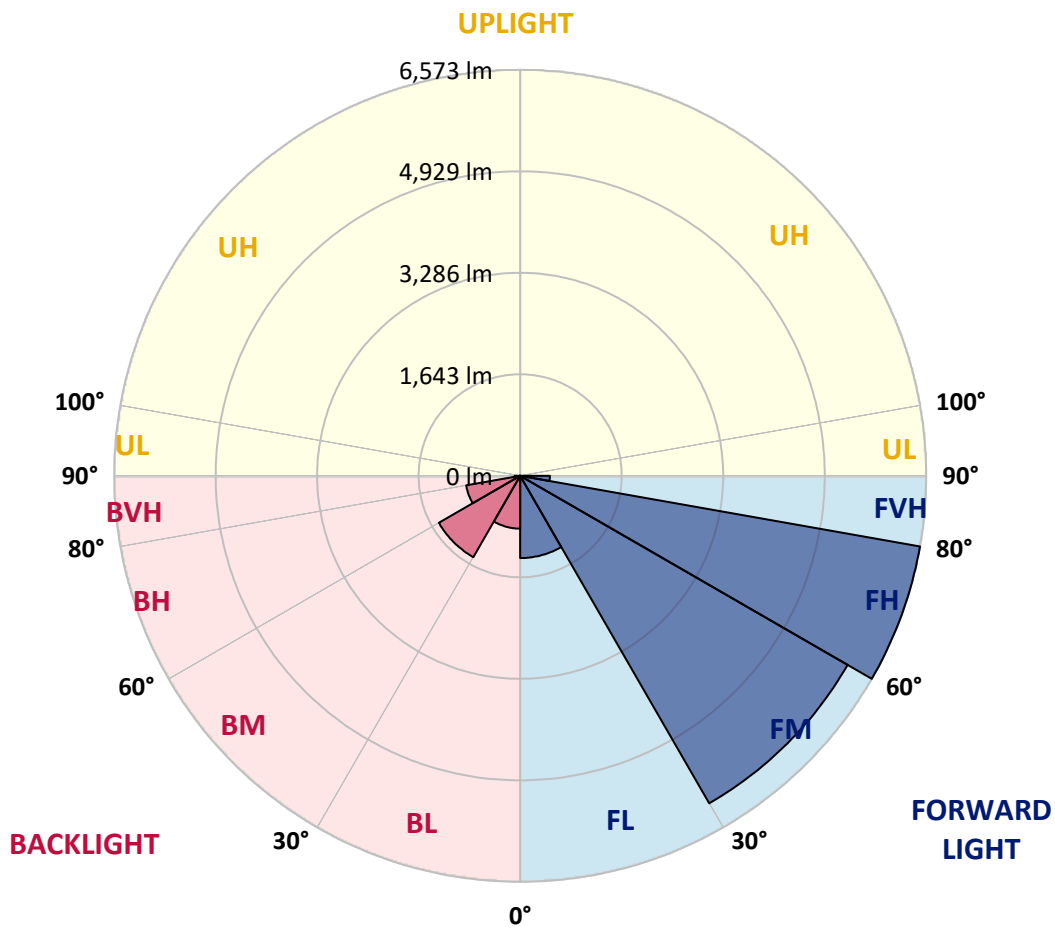
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1331.4	7.5			
FM (30°-60°)	6121.8	34.3			
FH (60°-80°)	6572.6	36.8			G3/7500
FVH (80°-90°)	481.2	2.7			G3/500
BL (0°-30°)	854.6	4.8	B2/1000		
BM (30°-60°)	1520.1	8.5	B2/2500		
BH (60°-80°)	887.3	5.0	B2/1000		G2/1000
BVH (80°-90°)	87.0	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	3277.4	3277.4	3277.4	3277.4	3277.4	3277.4	3277.4	3277.4	3277.4	3277.4
2.5°	3305.3	3293.8	3305.3	3300.5	3298.6	3294.7	3295.7	3302.4	3298.6	3303.4
5°	3283.2	3276.5	3288.0	3285.1	3297.6	3299.5	3312.0	3319.7	3324.5	3325.5
7.5°	3246.7	3240.0	3256.3	3269.7	3296.6	3304.3	3330.3	3342.7	3349.5	3361.0
10°	3113.2	3110.3	3150.6	3201.5	3264.9	3304.3	3343.7	3364.8	3375.4	3406.1
12.5°	2876.9	2880.7	2933.5	3031.5	3158.3	3285.1	3359.1	3389.8	3406.1	3444.6
15°	2651.1	2650.2	2707.8	2812.5	2990.2	3200.6	3366.8	3419.6	3447.4	3504.1
17.5°	2520.5	2516.7	2557.0	2636.7	2802.0	3070.9	3347.5	3435.9	3495.5	3566.6
20°	2496.5	2488.8	2509.9	2549.3	2666.5	2928.7	3297.6	3435.9	3533.9	3626.1
22.5°	2583.9	2571.4	2562.8	2558.0	2609.8	2811.6	3240.9	3424.4	3590.6	3711.6
25°	2759.7	2740.5	2696.3	2653.1	2637.7	2758.7	3191.0	3421.5	3675.1	3826.9
27.5°	3044.0	3020.0	2930.7	2826.9	2733.8	2785.6	3168.9	3438.8	3768.3	3948.9
30°	3396.5	3370.6	3258.2	3098.8	2931.6	2885.5	3196.7	3489.7	3887.4	4111.2
32.5°	3712.6	3683.7	3587.7	3425.4	3199.6	3058.4	3285.1	3586.7	4074.7	4336.9
35°	3993.0	3959.4	3873.0	3723.1	3528.1	3301.4	3444.6	3758.7	4340.8	4703.9
37.5°	4267.8	4228.4	4134.2	3975.8	3839.4	3625.2	3664.5	3979.6	4694.3	5149.6
40°	4575.1	4518.5	4404.2	4247.6	4115.0	4004.6	3953.7	4250.5	5053.5	5647.1
42.5°	4872.9	4819.1	4682.7	4549.2	4383.0	4351.3	4288.9	4567.5	5446.4	6193.7
45°	5193.7	5129.4	4964.2	4795.1	4690.4	4581.9	4613.6	4884.4	5831.6	6750.8
47.5°	5494.4	5422.4	5227.4	5039.1	4981.5	4775.9	4911.3	5233.1	6232.1	7315.6
50°	5656.7	5585.7	5423.3	5253.3	5208.2	5015.1	5234.1	5616.4	6651.9	7878.5
52.5°	5792.2	5715.3	5503.0	5408.9	5395.5	5275.4	5631.8	6054.4	7071.6	8376.1
55°	5936.3	5850.8	5579.9	5495.4	5556.8	5567.4	6103.4	6551.0	7515.4	8861.2
57.5°	6102.4	5993.9	5653.9	5568.4	5714.4	5909.4	6645.2	7065.9	7951.5	9310.7
60°	6259.0	6149.5	5796.0	5684.6	5884.4	6306.1	7266.6	7689.3	8445.2	9711.3
62.5°	6289.7	6199.5	5909.4	5908.4	6114.9	6769.1	8002.4	8318.4	8876.5	10107.0
65°	5757.6	5700.9	5529.0	5899.8	6445.4	7435.7	8821.8	9123.4	9425.0	10452.8
67.5°	4382.1	4389.8	4377.3	5092.9	6178.3	8393.4	10008.1	9985.0	10102.2	10840.9
70°	2003.7	2048.9	2342.8	3515.6	4949.8	8503.8	11969.5	11670.8	10952.3	11343.2
72.5°	1082.6	1117.1	1237.2	1703.1	2975.8	7560.6	13435.3	13647.6	12082.9	11681.4
75°	794.4	813.6	897.2	1082.6	1249.7	5619.3	12909.9	13999.2	12224.1	10892.7
77.5°	594.6	603.2	671.4	857.8	639.7	2962.4	10315.4	11594.0	10464.3	8949.5
80°	431.3	440.9	491.8	643.6	448.6	1083.5	7083.2	8137.9	7166.7	5704.8
82.5°	297.8	301.6	323.7	438.0	313.1	420.7	4019.0	4772.1	4000.7	2001.8
85°	179.6	184.4	194.0	255.5	177.7	199.8	1734.8	1794.3	1195.9	478.4
87.5°	74.0	78.8	86.5	107.6	70.1	55.7	286.2	359.2	223.8	140.2
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°
3277.4	0°	3277.4	3277.4	3277.4	3277.4	3277.4	3277.4	3277.4	3277.4	3277.4	3277.4
3287.0	2.5°	3282.2	3275.5	3257.3	3232.3	3209.2	3180.4	3167.9	3157.4	3147.8	3129.5
3313.0	5°	3302.4	3284.2	3235.2	3171.8	3099.7	3021.0	2944.1	2891.3	2846.1	2812.5
3342.7	7.5°	3333.1	3298.6	3209.2	3079.6	2914.3	2745.3	2592.6	2484.0	2402.4	2372.6
3385.0	10°	3364.8	3323.5	3167.9	2939.3	2654.0	2393.7	2191.0	2079.6	2014.3	1993.2
3435.0	12.5°	3402.3	3341.8	3103.6	2744.3	2363.0	2077.7	1900.9	1835.6	1802.0	1790.5
3496.4	15°	3457.1	3357.2	3006.6	2500.3	2085.4	1847.2	1732.8	1687.7	1670.4	1669.5
3559.8	17.5°	3498.4	3360.0	2855.7	2239.1	1872.1	1707.9	1613.7	1596.4	1608.0	1625.3
3622.3	20°	3544.5	3334.1	2657.9	2000.8	1722.3	1585.9	1546.5	1558.0	1585.9	1610.9
3704.9	22.5°	3577.1	3287.0	2418.7	1815.5	1592.6	1515.8	1513.8	1537.9	1553.2	1565.7
3801.9	25°	3605.9	3207.3	2165.1	1659.8	1486.0	1473.5	1494.6	1486.9	1476.4	1486.9
3898.9	27.5°	3627.1	3081.5	1938.4	1523.4	1411.1	1444.7	1432.2	1414.9	1413.9	1419.7
4013.2	30°	3620.3	2913.4	1752.1	1393.8	1358.2	1390.9	1361.1	1358.2	1355.3	1358.2
4185.2	32.5°	3620.3	2722.2	1608.9	1304.4	1324.6	1312.1	1309.2	1302.5	1291.0	1290.0
4418.6	35°	3640.5	2531.1	1486.0	1256.4	1296.8	1267.0	1268.9	1252.6	1228.6	1217.0
4727.9	37.5°	3681.8	2377.4	1364.0	1233.4	1247.8	1246.8	1239.1	1211.3	1169.0	1132.5
5114.0	40°	3781.7	2332.2	1280.4	1222.8	1224.7	1236.2	1216.1	1162.3	1066.2	1006.7
5505.9	42.5°	3938.3	2408.1	1262.2	1196.9	1209.3	1220.9	1181.5	1056.6	988.4	952.9
5917.0	45°	4137.1	2540.7	1301.6	1159.4	1172.8	1193.0	1075.8	1016.3	985.5	986.5
6324.3	47.5°	4388.8	2680.0	1374.6	1126.7	1120.0	1131.5	1005.7	969.2	926.9	937.5
6715.3	50°	4679.8	2821.2	1443.7	1082.6	1061.4	1024.0	960.6	926.0	872.2	847.2
7092.8	52.5°	4994.9	2957.6	1471.6	1028.8	998.0	954.8	929.8	887.6	822.2	780.9
7449.1	55°	5293.6	3081.5	1440.8	964.4	934.6	901.0	897.2	871.2	801.1	743.5
7766.1	57.5°	5576.0	3185.2	1364.0	899.1	870.3	850.1	876.0	863.5	775.2	701.2
8065.8	60°	5815.2	3256.3	1252.6	832.8	812.6	802.1	841.5	837.6	738.7	656.1
8334.8	62.5°	6005.4	3284.2	1129.6	769.4	764.6	745.4	793.4	793.4	692.6	611.9
8571.1	65°	6154.3	3257.3	1004.7	707.0	716.6	687.8	734.8	729.1	643.6	572.5
8842.9	67.5°	6285.9	3168.9	866.4	645.5	667.6	631.1	673.4	659.9	589.8	533.1
9078.2	70°	6344.5	2963.3	708.9	584.0	610.9	575.4	611.9	586.9	529.3	490.8
8819.9	72.5°	5873.8	2462.9	558.1	519.7	542.7	513.9	545.6	516.8	464.0	446.7
7616.3	75°	4859.5	1848.1	429.4	449.5	466.8	444.7	465.9	444.7	396.7	409.2
5626.0	77.5°	3529.1	1247.8	328.5	375.6	383.3	371.7	390.0	366.0	322.7	319.9
2803.9	80°	1754.9	731.0	257.4	296.8	293.9	286.2	307.4	295.9	259.4	274.7
756.9	82.5°	508.1	313.1	187.3	208.4	202.7	204.6	220.0	225.7	338.1	335.2
235.3	85°	159.5	123.0	112.4	116.2	110.5	113.3	129.7	257.4	238.2	139.3
73.0	87.5°	41.3	42.3	27.9	29.8	30.7	36.5	41.3	156.6	74.9	49.0
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>
3277.4
3120.9
2784.7
2320.7
1960.5
1793.4
1673.3
1632.0
1619.5
1572.4
1493.7
1429.3
1368.8
1302.5
1228.6
1145.0
1014.4
952.9
991.3
964.4
853.9
780.0
743.5
697.4
653.2
609.0
568.7
529.3
483.2
432.3
373.7
305.5
271.8
342.9
150.8
51.9
0.0

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